

# Opportunities for PhD graduates in Life Sciences in Bratislava, Trnava and Vienna regions

(labor market analysis)



## ACKNOWLEDGMENT



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INTRODUCTION

Life Sciences are one of the fastest growing industries. European and regional policies aimed at targeted cooperation between academia and the private sector enable businesses to access the vast knowledge resources of the university and also helps to embed university expertise within the private sector. This type of cooperation makes it possible to stimulate the development of the career skills needed for entrepreneurship, innovation and creativity. The aim of the CARLiS project is to understand the educational requirements necessary for success in the Life Sciences sector labor market, to develop educational tools and capacities at universities and research institutions in the Bratislava - Vienna region, and to ensure that the experience gained during this project can be transferable to other scientific disciplines and procedures replicable in other institutions. The project set out to explore the full range of job opportunities for life sciences researchers in a selected region and to understand the gaps between the skills of doctoral students and the skills required by employers of companies operating in the region. The CARLiS project, funded by the Interreg V-A Slovak Republic - Austria project, is implemented by the SAIA, n.o. (Slovak Academic Information Agency) in cooperation with Comenius University in Bratislava, the Slovak Technical University, the Slovak Academy of Sciences and the University of Vienna.

This document provides a structured overview of the situation on the labor market and job opportunities for PhD students and PhD holders in the Life Sciences sector in the Bratislava-Vienna region. We identified, summarized and evaluated existing data sources with the aim to describe the current state of the analyzed issues with special emphasis on three areas:

- (1) characteristics of the state of the labor market and job opportunities in the sector of Life Sciences in the region of Bratislava - Vienna;
- (2) information about non-academic careers paths of PhD holders in the above-mentioned regions;
- (3) current trends in professional development of researchers with an emphasis on supporting skills development for non-academic careers and examples of good practice.

Labor market analysis of a similar scope and focus containing a structured overview of career opportunities in the Life Sciences sector is currently not available and may thus be a valuable source of information not only for the project consortium but also for other actors in the R&D&I system. It is a key input for the process of creating a training program for PhD students.

# **BRATISLAVA and TRNAVA REGION**



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## **SUMMARY**

For the purpose of this document the Life Sciences industry comprised companies operating in the research, development and manufacturing of products that improve the lives of organisms. Our analysis was divided into four sections: (1) study statistics, (2) life sciences sector analysis – search criteria, (3) job opportunities and (4) opportunities to develop skills, knowledge and experience.

The first section dealt with PhD study statistics and trends. The aim of this section was to identify the number of PhD students studying Life Sciences. Partners from Comenius University in Bratislava and Slovak University of Technology in Bratislava provided data within their institutions. In the case of Slovak University of Technology in Bratislava, we included faculties, in which the framework of their R&D activities is associated with Life Sciences. Slovak Academy of Sciences was taken as a separate workplace despite the fact that the PhD students are officially enrolled predominantly at one of the above-mentioned universities. Other statistics were obtained using publicly available sources.

The second part of the analysis was focused on identification of Life Sciences companies operating in Bratislava-Trnava region, with own R&D activities and opportunities for PhD holders. A total of 45 companies that have met inclusion criteria were identified. The companies were then classified by number of employees and annual revenues.

Third part of our analysis was focused on the job opportunities for PhD holders in non-academic sector. For several months, we monitored vacancies for PhDs at job portals and the official websites of the companies identified in our survey. Based on the desktop research we were able to summarize common characteristics of positions for PhD holders and employers' requirements for their skills. In addition, vacancies for PhDs in academic sector were also identified.

Last part of our analysis dealt with opportunities for PhD holders to develop their skills, knowledge and experience.

## 1. STUDY STATISTICS

This part is dealing with PhD study statistics and trends. The aim was to identify the number of PhD students study Life Sciences in (A) Slovakia and in (B) Bratislava and Trnava region. Partners from Comenius University in Bratislava and Slovak University of Technology in Bratislava provided data within their institutions. In the case of Slovak University of Technology in Bratislava, we included faculties based in Bratislava, in which the framework of their R&D activities is associated with Life Sciences or Life Sciences companies typically need expertise of those graduates. Slovak Academy of Sciences was taken as a separate workplace, despite the fact that the PhD students are officially enrolled predominantly at one of the above-mentioned universities. In order to obtain more detailed information about doctoral students, we also used publicly available sources.

**Table 1.** Number of PhD students at Slovak universities

Universities	Form of study			
	Full-time		Part-time	
	Slovak students	Foreign students	Slovak students	Foreign students
Public	3347	304	1897	412
Private	42	3	221	95
State	9	-	249	3
<b>Total</b>	<b>3398</b>	<b>307</b>	<b>2367</b>	<b>510</b>

*Note:* Statistics are available as of 31. 12 .2020, academic year 2020/2021.

*Source:* [Slovak center of scientific and technical information.](#)

**Table 2.** Number of PhD students at Comenius University in Bratislava

Comenius University in Bratislava		Form of study			
		Full-time		Part-time	
		Slovak students	Foreign students	Slovak students	Foreign students
<b>Total*</b>		<b>964</b>	<b>115</b>	<b>618</b>	<b>189</b>
Life Sciences	Faculty of Natural Sciences	286	55	44	4
	Faculty of Medicine	87	-	225	6
	Faculty of Pharmacy	45	2	16	2
	Faculty of Physical Education and Sports	21	-	5	-
	Faculty of Mathematics, Physics and Informatics	129	36	21	1

*Note:* \* Including PhD students from Slovak Academy of Sciences. Statistics are available as of 31. 12 .2020, academic year 2020/2021. Faculties were selected and included based on their R&D activities associated with the Life Sciences.

*Source:* [Slovak center of scientific and technical information.](#)

**Table 3.** Number of PhD students at Slovak University of Technology in Bratislava

Slovak University of Technology		Form of study			
		Full-time		Part-time	
		Slovak students	Foreign students	Slovak students	Foreign students
	<b>Total*</b>	<b>532</b>	<b>47</b>	<b>143</b>	<b>22</b>
Life Sciences	Faculty of Informatics and Information Technologies	19	6	3	1
	Faculty of Civil Engineering	131	8	18	1
	Faculty of Mechanical Engineering	39	2	19	8
	Faculty of Chemical and Food Technology	137	18	26	1

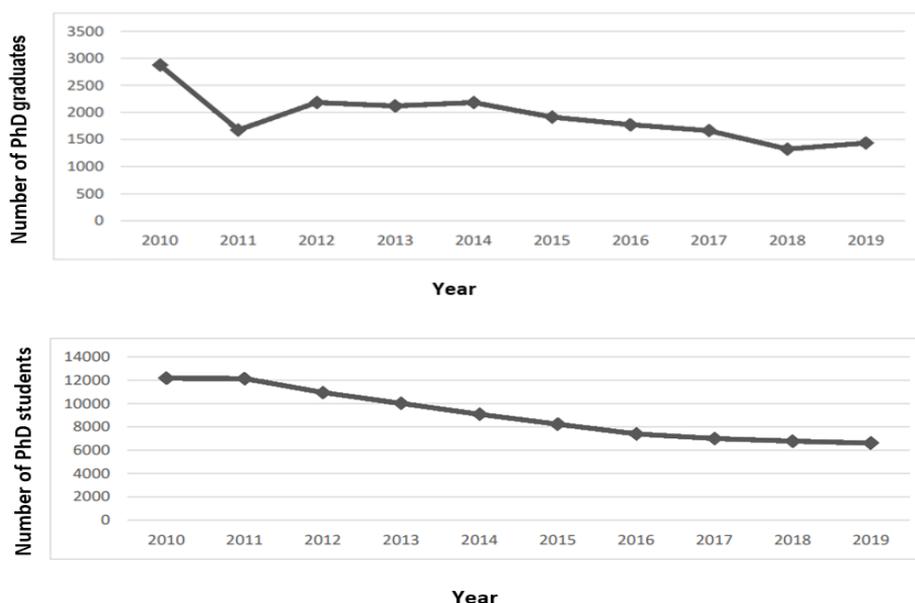
*Note:* \*Including PhD students from Slovak Academy of Sciences. Statistics are available as of 31. 12 .2020, academic year 2020/2021. Faculties were selected and included based on their R&D activities associated with the Life Sciences. *Source:* [Slovak center of scientific and technical information](http://www.vst.sk/).

**Table 4.** Number of PhD students at Slovak Academy of Sciences

Slovak Academy of Sciences	Students	
	Full-time	Part-time
<b>Total</b>	<b>429</b>	<b>49</b>
Comenius University in Bratislava		264
Slovak University of Technology		66
Life science studies		<b>224</b>

*Note:* Statistics are available as of 31. 12 .2020, academic year 2020/2021.

The development of the number of **PhD graduates** over the last ten years has seen several fluctuations, while in the long run, even in this case, a clearly declining trend is noticeable. The declining trend in the number of **doctoral students** has been evident since 2012.

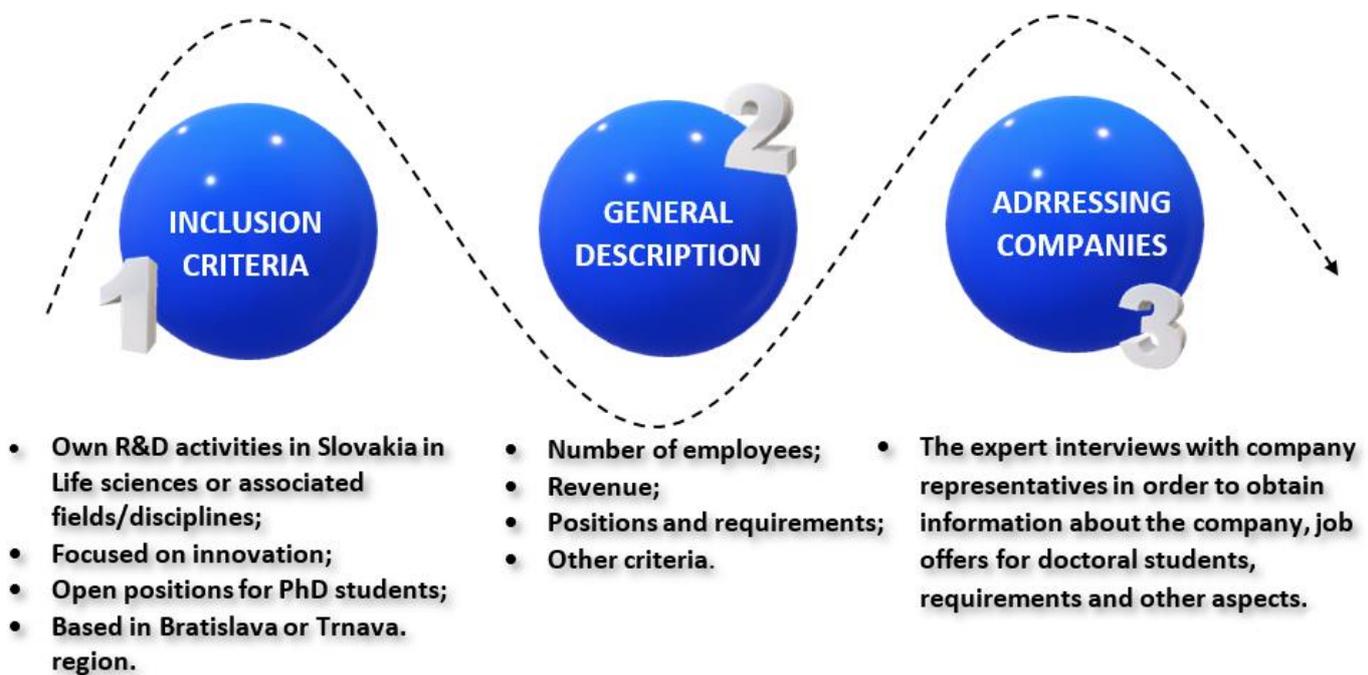


**Figure 1.** Development of the number of PhD students and PhD graduates in Slovakia

*Source:* [https://www.cvtisr.sk/buxus/docs//VS/nezamestnanost/Vs\\_abs\\_nezam\\_2019\\_web.pdf](https://www.cvtisr.sk/buxus/docs//VS/nezamestnanost/Vs_abs_nezam_2019_web.pdf)

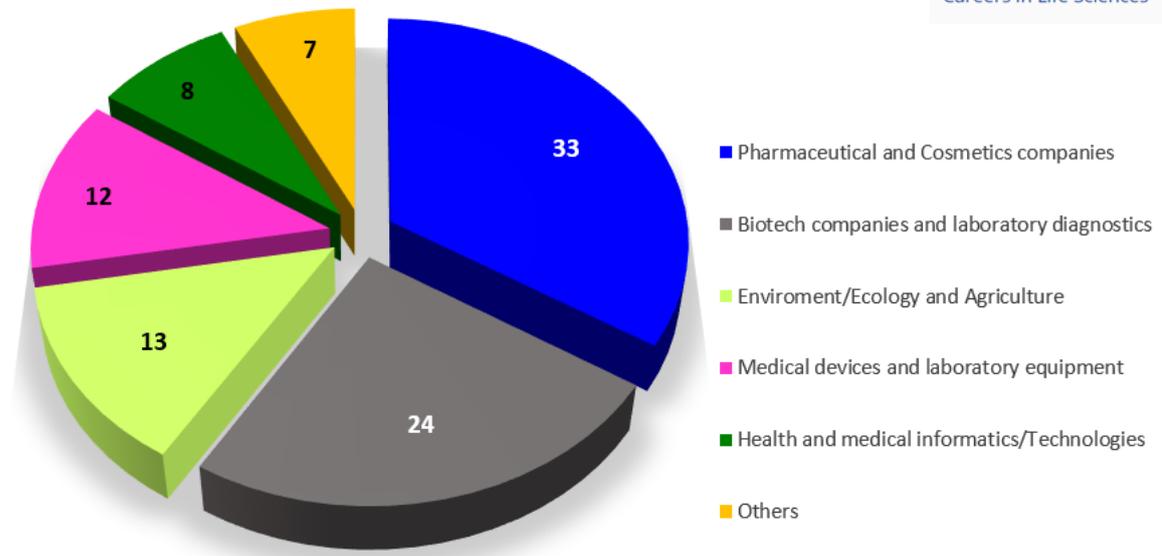
## 2. LIFE SCIENCES SECTOR ANALYSIS – SEARCH CRITERIA

For the purpose of this analysis, Life Sciences included all industries that have an impact on living organisms, life processes and health. Desktop research was conducted to find the pharmaceutical and biotechnology companies, companies dealing with medical devices and equipment, products and services for LS, laboratory diagnostics, medical software, agriculture, environment and others operating in Bratislava and Trnava region. The companies were subsequently subject to inclusion criteria (Figure 2). In case of missing information, we contacted them via email or phone. A **total of 97 Life Sciences companies** based in Bratislava and Trnava region were identified, out of which only **45 met inclusion criteria**. An overall searching strategy is displayed in Figure 1.



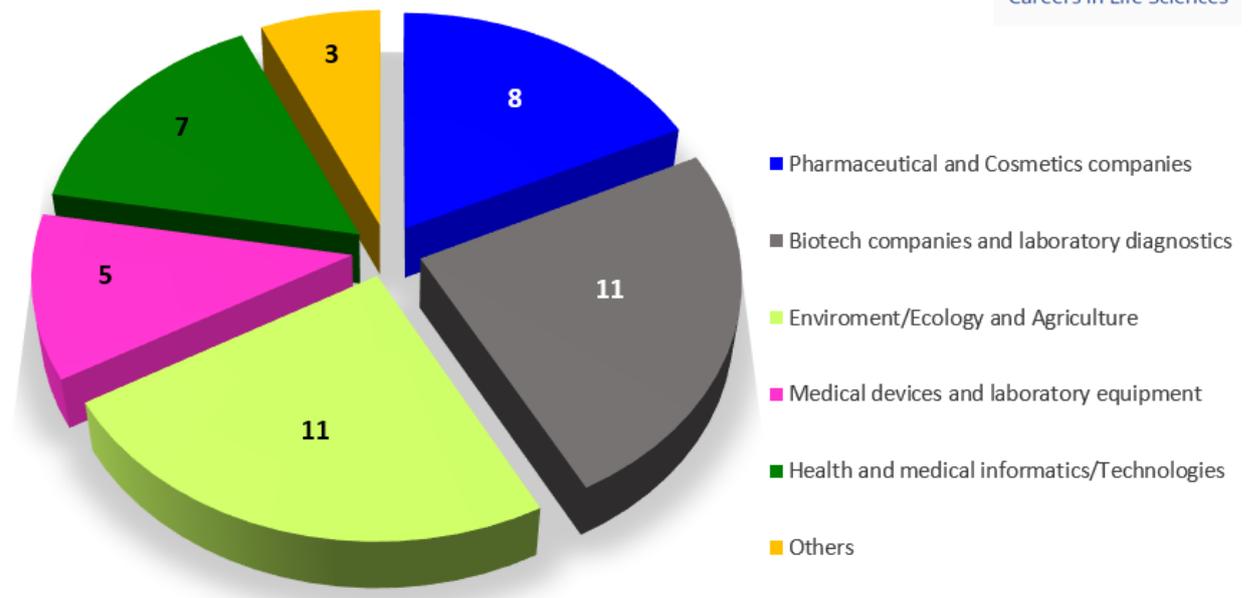
**Figure 2.** Searching strategy

### A total of 97 identified LS companies



**Figure 3.** Characteristics of all identified Life Sciences (LS) companies in Bratislava and Trnava region

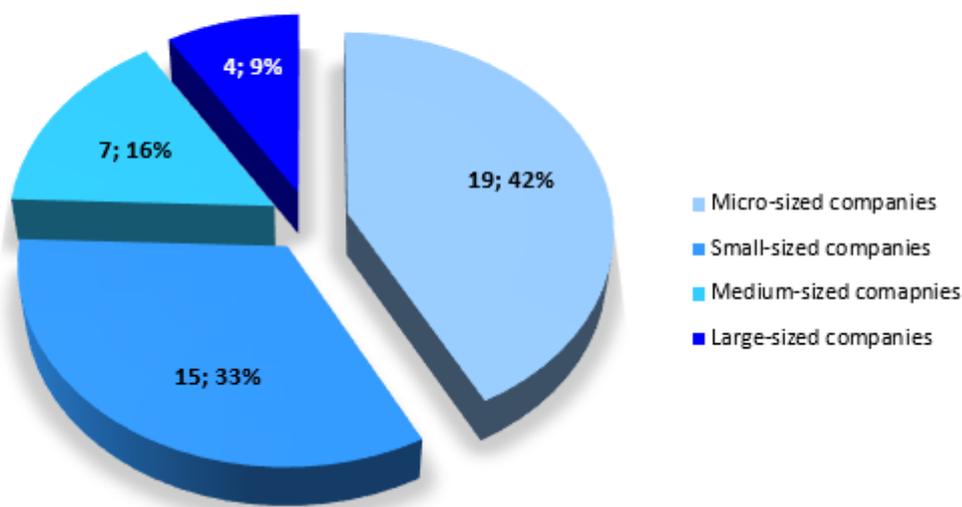
### A total of 45 LS companies that have met inclusion criteria



**Figure 4.** Characteristics of Life Sciences (LS) companies based in Bratislava and Trnava region that have met inclusion criteria

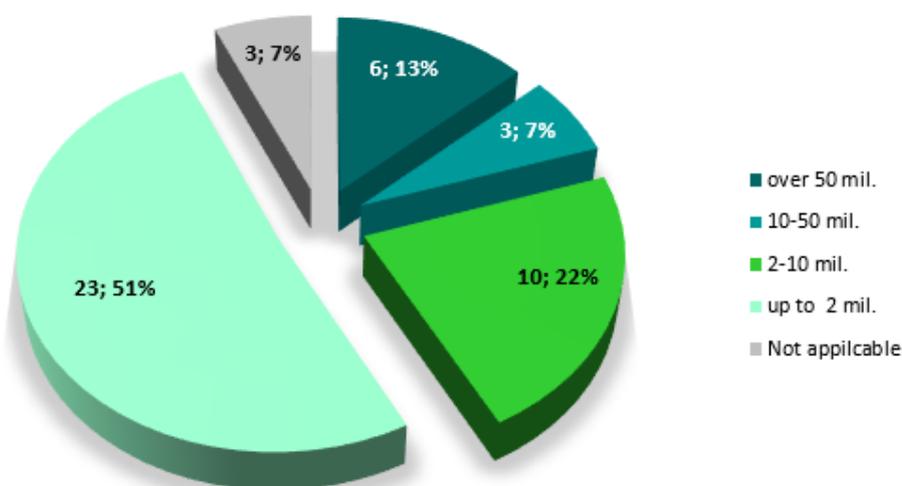
Companies can be classified in different categories according to their size; for this purpose, different criteria may be used, but the most common is number of people employed. Small and medium-sized companies are divided into micro companies (1-9 employees), small companies (10 to 49 employees), medium-sized companies (50 to 249 employees). Large companies employ 250 or more people<sup>1</sup>. Of the 45 companies identified, **42% were micro-sized** (including startups), **33% were small-sized**, **16% were medium-sized** and **9% were large-sized companies**. [Finstat.sk](#), [LinkedIn](#) and [D&B Business Directory](#) have been used as a source to make a general profile of the companies.

### Classification of business size by number of employees



**Figure 5.** Size of the Life Sciences (LS) companies that have met inclusion criteria based on the number of employees

### Classification of business size by revenue



**Figure 6.** Size of the Life Sciences (LS) companies that have met inclusion criteria based on their revenues

Companies were also divided according to their revenues. Half of the identified companies (51%) reported annual revenue of up to 2 million euro. Six companies (13%) reported revenue over 50 million euro. Data were not available for 3 of the companies. Analysis was conducted based on publicly available data from [Finstat.sk](http://Finstat.sk).

### 3. JOB OPPORTUNITIES

For several months, we had monitored the available job offers for doctoral students at the [Profesia.sk](http://Profesia.sk) portal and the official websites of the companies identified in our survey. In line with project proposal, we have focused on job offers in the Bratislava and Trnava region only. We also included information from company representatives obtained during expert interviews. One of the important findings we have reached from expert interviews is, that research positions, or positions with rather high R&D proportion of their workload, positions where specific research expertise is requested are often not publicly advertised as candidates for such positions are hired based on established collaborations e.g. via co-supervision/mentoring of master/PhD theses, internships, or long-term collaborations with academic workplaces. This emphasizes the importance of establishing cooperation with potential employers already during doctoral studies. The offers that are advertised on job portals offer only a partial picture of vacancies for PhD students (they are used mainly for certain types of positions and in certain sectors – i.e. IT and Pharma positions).

#### **Common characteristics of positions for PhD holders**

- The most job positions for PhD holders advertised via public online channels and recruitment platforms are advertised by the IT companies. Positions very often combine IT with the field of healthcare. Nowadays, the association of IT and healthcare is a basic condition for the development, implementation and further generation of innovative health care technologies.
- Positions are open also for applicants graduating from lower than PhD level education, but with previous experience with similar workload, activities etc.
- All of them are full time job positions.
- Job offers are often advertised by recruitment agencies.

#### **Work experience**

- Required work experience is 2 to 3 years on average.
- For some job positions, a longer work experience is required. This mainly concerns positions requiring knowledge and experience with specific systems, technologies and programs.
- Some employers require different duration of work experience for different skills even within a single job position.

e.g. *“Minimum 5 years of experience in pharmaceutical drug substances.”* and *“Experience in project leadership (min. 3 years).”*

### Language proficiency

- Professional working proficiency in foreign language (B2 and C1 level of Common European Framework of Reference for Languages) is required for majority of advertised positions.
- English is the most commonly required language. It is working language in many companies.

### Salary

- Offered wage ranged from 950 to 4000 euro (1800 euro in average), depending on the field, company, position, experience etc.
- The highest salaries are offered by IT companies.

### *Required knowledge, skills and abilities*

**Table 5.** Employers' requirements for applicants' skills in R&D positions

<b>General</b>	<b>Specific</b>
<ul style="list-style-type: none"><li>• Overview in the field</li><li>• Good software and computer skills</li><li>• Work in a team environment</li><li>• Good analytical, organizational and problem-solving skills</li><li>• Interested in learning new things and coming up with new ideas and solutions</li><li>• Good planning, time management and prioritization skills</li><li>• To establish and maintain effective working relationships with coworkers, managers, clients and vendors</li><li>• To balance complex information with accuracy and attention to detail</li><li>• Responsibility and time flexibility</li><li>• Strong decision-making skills</li></ul>	<ul style="list-style-type: none"><li>• Experience in project leadership</li><li>• Working in a multicultural workplace</li><li>• To inspire and influence</li><li>• To define strategic plans</li><li>• Strong customer focus, knowledge of business development and risk management</li><li>• Understanding traditional project management principles and practices</li><li>• To build strong relationships with stakeholders</li><li>• Experience in sponsor facing role</li><li>• To work on multiple projects and manage competing priorities</li><li>• Positive “can-do” attitude</li><li>• Creativity with excellent presentation and communication skills including strong persuasive techniques</li><li>• To manage and lead others</li><li>• To perceive and analyze problems, develop solutions, and make sound management decisions</li><li>• Proactive and self-directed work style</li></ul>

*Note:* General = common for most positions; Specific = skills and abilities not directly associated with PhD education in the field of life sciences.

**Table 6.** An example of positions available for PhD students during the reference period (May – August 2021)

Position	Job description	Gross salary
<b>Project Manager / Development of generic products (FDF/API)</b> 	<ul style="list-style-type: none"> <li>Employee will be accountable for project management of development projects for final dosage forms and APIs, technological transfers to selected CMOs and all related activities.</li> </ul>	from 1200 €
<b>Analytical chemist in the Quality Control Departments</b> 	<ul style="list-style-type: none"> <li>Analysis of pharmaceutical samples by appropriate instrumentation.</li> <li>Preparation of samples of drugs and medicines in the Quality Control Departments (weighing, processing) according to the approved documentation in cooperation with other analysts.</li> <li>Cooperation on the development of analytical methods.</li> </ul>	from 1000€
<b>React (Native) developer</b> 	<ul style="list-style-type: none"> <li>Development of web/native applications using modern front-end technologies.</li> <li>Work on a global healthcare project.</li> </ul>	2000 - 4000€
<b>Centralized Monitor</b> 	<ul style="list-style-type: none"> <li>To provide project related support and assistance across multiple projects, sites and teams and review the structured clinical data output with access to medical charts.</li> <li>To ensure the work is conducted as per SOPs, policies and good clinical practice's and applicable regulatory requirements.</li> <li>Adherence to protocol, overall completeness, and readiness of the supplied patient information to the next level of patient review and follow the metrics and timelines.</li> </ul>	1600€
<b>Centralized Monitoring Lead</b> 	<ul style="list-style-type: none"> <li>Provides centralized support to monitoring visits and site management for a variety of protocols, sites and therapeutic areas.</li> <li>Monitors study start-up, manages resources, performs ongoing risk assessment through data trending and analytics and proposes potential mitigating actions in a timely fashion.</li> <li>Leads teams of Central Monitors (CM) and Clinical Analyst Support (CAS).</li> </ul>	2000€
<b>Sr Records Management Associate - Administrative Assistant for clinical studies</b> 	<ul style="list-style-type: none"> <li>Provide Trial Master File (TMF) related assistance to study teams.</li> <li>Ensure all work is conducted in accordance with Standard Operating Procedures (SOPs), policies, practices, good clinical practices, applicable regulatory requirements, and meets quality and timeline metrics.</li> <li>Ensure that project timelines are met and facilitate the orderly imaging, transfer, retention, and</li> </ul>	1350€

	disposition of various project-related and business records.	
	<ul style="list-style-type: none"> <li>• Administer records management systems.</li> </ul>	
<b>Junior Scientist – Molecular Biology</b>	<ul style="list-style-type: none"> <li>• We are looking for a Scientist with experience in Molecular Biology to join our team in planning, conducting, and optimizing RNA-based diagnostic experiments.</li> <li>• In this multifaced role, you will help advance our next pipeline of designed diagnostic products, solve technical obstacles, test different concepts in the laboratory, read scientific papers, and generate new ideas in collaboration with our innovative R&amp;D team.</li> <li>• You will report to the Director of R&amp;D and Chief Operating Officer and be based at the headquarters in Bratislava, Slovakia.</li> </ul>	from 1500€
		
<b>C# Software Backend Mid Developer for Healthcare projects</b>	<ul style="list-style-type: none"> <li>• Employee will be part of software development team to build software systems.</li> <li>• He/she will engage closely with architects and engineering teams to build new software platform-used to control, service and maintain hundreds of thousands company instruments and various other systems world-wide.</li> <li>• Working on challenging tasks to enable integration of medical devices and processing of high-throughput as well as big volume data.</li> </ul>	from 1800€
		
<b>C# Software developer for Point of Care Diagnostics</b>	<ul style="list-style-type: none"> <li>• To develop control software for new generation of Point-of-Care diagnostic devices.</li> </ul>	from 1800€
		
<b>Product manager (owner) for Hospital Performance System</b>	<ul style="list-style-type: none"> <li>• To design and deliver a change management process enabled by real-time operations technology and consulting to transform hospitals into highly efficient organizations with the human element in mind.</li> <li>• The goal is to support the transformation of hospitals into highly efficient organizations with the human element in mind.</li> </ul>	from 2300€
		
<b>Senior Data Scientist – Digitalization</b>	<ul style="list-style-type: none"> <li>• Work position is about close collaboration with the EMEA digitalization team of our agricultural business.</li> <li>• Candidate will embark on a complex digitalization journey comprising of adaptation of industry leading algorithms in the context of business optimization and growth.</li> </ul>	from 2500€
		

Source: [www.profesia.sk](http://www.profesia.sk)

**An example of vacancies for PhD holders in the period from 1. 1. 2020 to 31. 7. 2021 at selected faculties**

**Comenius University in Bratislava**



**Table 7.** Job opportunities for PhD holders at Comenius University

<b>Faculty</b>	<b>Department</b>	<b>Position</b>	<b>No. of offered positions</b>
<b>Faculty of Pharmacy</b>	Department of Galenic Pharmacy	Teacher/assistant professor	1
	Department of Pharmaceutical Chemistry		1
	Department of Pharmaceutical Analysis and Nuclear Pharmacy		1
	Department of Organization and Management of Pharmacy		1
	Department of Physical Chemistry of Drugs		1
<b>Faculty of Medicine</b>	Institute of Physiology	Teacher/assistant professor	3
	Institute of Medical Biology, Genetics and Clinical Genetics		2
	2 <sup>nd</sup> Department of Gynecology and Obstetrics		2
	Institute of Medical Chemistry, Biochemistry and Clinical Biochemistry		1
	Institute of Immunology		1
	1 <sup>st</sup> Department of Oncology		1
	5 <sup>th</sup> Department of Internal Medicine		1
	Teaching Department of Burns and reconstructive surgery		1

**Requirements for the employeee**

- University education (doctoral degree).
- Medical or pharmaceutical education with proven expertise and experience in relevant scientific fields.
- Scientific English knowledge is welcome.
- Written and spoken English.
- Publishing activity in the field of Life Sciences is required.
- Minimum of 3 years of experience in relevant scientific field.
- Salary is based on tables with the possibility of increase through personal allowances.

**Table 8.** Job opportunities for PhD holders at Slovak University of Technology

Faculty	Department	Position	No. of offered positions
<b>Faculty of Informatics and Information technologies</b>	Institute of Informatics, Information Systems and Software Engineering	Scientist*	1
	Institute of Computer Engineering and Applied Informatics	Teacher/assistant professor*	3
<b>Institute of Management</b>	Department of Spatial Planning	Assistant professor/part time.	1
<b>Faculty of Mechanical Engineering</b>	Institute of Transport Technology and Engineering Design	Postdoc positions	2
	Institute of Energy Machinery		2
	Institute of automation, measurement and applied informatics		1
<b>Faculty of Material Science and Technology in Trnava</b>	<a href="#">Institute of Industrial Engineering and Management</a>		2
	Institute of materials		2
	<a href="#">Institute of Production Technologies</a>		1
	Institute of Advanced Technology Research		1
<b>Faculty of Electrical Engineering and Information Technology</b>	Institute of Electronics and Photonics		6

*Note:* Based on the available information, it is not possible to define positions associated with Life Sciences.

### Requirements for the employeee

- University education (doctoral degree).
- Minimum of 3 years of experience in relevant scientific field.
- \*Gross wage 1500 €.

EURAXESS – Researchers in Motion is a unique pan-European initiative delivering information and support services to professional researchers regardless of their career stage. Backed by the European Union and its Member State, it is the largest European network supporting researcher mobility and career development and enhancing scientific collaboration between Europe and the world. [EURAXESS Jobs & Funding Databases](#) include thousands of vacancies, fellowships and hosting opportunities in all research fields in Europe. Below is a list of Life Sciences positions for PhD candidates and postdocs published at EURAXESS portal in 2020 and in the first 7 months of 2021.

**Table 9.** A total number of vacancies in 2020 and 2021

Year	Comenius University	Slovak Academy of Science	Slovak University of Technology	Others (Start-ups, Small medium enterprises)
2020	4	70	5	1
2021*	4	77	2	0

Source: <https://euraxess.ec.europa.eu/jobs>

Note: \*positions published from 1. 1. 2021 to 31. 7. 2021.

### Comenius University in Bratislava



**Table 10.** Life Sciences vacancies at Comenius University in 2020 and 2021

Year	Department/ centre	Position	Number of positions available
2021*	Comenius University in Bratislava	Postdoctoral positions in Chemistry and Biology	8

Note: positions published from 1. 1. 2021 to 31. 7. 2021.

**Table 11.** Life Sciences vacancies at SAS in 2020 and 2021

Year	Department/ centre	Position	Number of positions available
2020	CEMEA	PostDoc position in confocal laser microscopy in live cell imaging combined with electron transmission microscopy	1
2021*	CEMEA	PostDoc position in bioinformatics related to biomedical research	1
	CEMEA	PostDoc position in tumor biology and nanomedicine	1

*Note:* \*positions published from 1. 1. 2021 to 31. 7. 2021.

**Table 12.** Life Sciences vacancies at Slovak University of Technology in 2020 and 2021

Year	Department/ centre	Position	Number of positions available
2020	Slovak University of Technology	Postdoctoral research position – Extraction of biologically active substances from waste plant biomass and their application in functional foods	1
	Slovak University of Technology	Postdoctoral research position – Assessing the effect of rainfall-runoff model parametrization on climate change impact evaluation	1
	Slovak University of Technology	Postdoctoral research position – Practical synthesis of antibiotics active against the most dangerous bacterial pathogens	1

*Note:* \*positions published from 1. 1. 2021 to 31. 7. 2021.

**Table 13.** Life Sciences vacancies in private sector in 2020 and 2021

Year	Department/ centre	Position	Number of positions available
2020	TatraMed Software	Efficient software solutions for image processing and quantitative analysis in nuclear medicine	1

*Note:* \*positions published from 1. 1. 2021 to 31. 7. 2021.

#### 4. OPPORTUNITIES TO DEVELOP SKILLS, KNOWLEDGE AND EXPERIENCE

Life Sciences are one of the fastest growing industries. The rapid development of technologies also changed hiring requirements. Employers are now looking for candidates with comprehensive skill-set, which will nonetheless need to be fine-tuned frequently to keep up with technical and scientific progress. New technologies keep invading most industries including Life Sciences, transforming work processes and consumer expectations. The window of opportunity is closing. It is therefore necessary to constantly develop existing knowledge and skills, and acquire new ones flexible with labor market requirements.

**Table 14.** An example of information sources useful for increasing knowledge, skills, experience and R&D activities of PhD holders in Life Sciences

Source of information	Short description
 <a href="#">SAIA, n.o.</a>	SAIA is a non-profit organization that helps institutions and individuals to acquire information on study opportunities and scientific-research stays, financial support for study, research stays and language courses nationally and abroad. It administers both domestic and international programs; provides advisory services to institutions making efforts to develop international relations in areas of education and science; organizes selection of candidates for scholarship stays; collaborates with institutions in Slovakia and abroad and provides services connected to promotion and coordination of their study and research programs; disseminates information on activities of Slovak educational and scientific-research organizations in Slovakia and abroad; organizes or co-organizes workshops, seminars and other educational activities.
 <a href="#">EURAXESS</a>	EURAXESS is a platform for researchers, entrepreneurs, universities and businesses to interact with each other. EURAXESS covers mobility-related topics for researchers and entrepreneurs, and allows universities and businesses to find the right talent, projects and funding. In the EURAXESS portal researchers can search for jobs, funding opportunities and personalized assistance across Europe.
 <a href="#">NextStep Science</a>	NextStep Science connects young students of natural sciences with career opportunities in science, biotechnology, pharmacy and other opportunities to improve the skills required in the labor market. It organizes career and networking events where participants meet inspiring personalities from the field of natural sciences. They create space for important ideas and meetings that influence the career decisions of young students and thus help to the overall development of the innovative environment of natural sciences in Slovakia.
 <a href="#">BIC Bratislava</a>	Activities are focused on supporting innovation, technology transfer and business development. Services include business and innovation advice, support of international cooperation, assistance in access to finance, as well as supporting participation in the EU framework programs for research and innovation. Agency can help also in the field of protecting intellectual property or finding potential foreign business partners.
 <a href="#">Slovak Business Agency</a>	Slovak Business Agency is non-profit organization for the support of small and medium-sized enterprises (SMEs). Mission of the agency is to support SMEs at the national, regional and local level; complex support of SMEs in compliance with the Small Business Act's (SBA) principles and to improve the competitiveness of SMEs within the single EU market as well as in the non- EU markets.

<p><a href="#">Falling Walls Lab Slovakia</a></p> 	<p>The Falling Walls Lab offers the opportunity to excellent academics and professionals to present their innovative ideas, research projects and social initiatives in an attractive, 3 slides/3 minutes format. This format supports interdisciplinary dialogue and international cooperation, connects aspiring innovators and senior researchers, develops new and sustainable ways of scientific communication.</p>
<p><a href="#">CIVITTA</a></p> 	<p>Civitta is a consultancy company that helps clients (start-ups, universities, corporates and governments) identify funding opportunities, develop the project and follow through the implementation process. It provides advisory services in national EU program funding, EU-level program funding (Horizon 2020), equity investor attraction and private sector lending.</p>
<p><a href="#">HealthCare Lab</a></p> 	<p>HealthCare Lab is an acceleration program supporting digital healthcare ventures in the CEE and Southern Europe region. The program's mission is to connect, grow and nurture the community of innovators, researchers, healthcare providers, and regulators to bring ground-breaking innovations in healthcare to the market faster. Currently, in its second batch, HealthCare Lab is supported by industry leaders from Roche &amp; EIT Health and run by innovation experts from Civitta.</p>
<p><a href="#">Biohub Slovakia</a></p> 	<p>Biohub Slovakia is an incubator program to support academia and entrepreneurs turning ideas and innovations into scalable products. A dedicated team of national and international Life Science professionals provide hands-on support and mentoring for students and academic start-ups.</p>
<p><a href="#">Sapie</a></p> 	<p>Sapie acts as a neutral, independent and non-profit platform connecting more than 100 innovative companies. It focuses on building collaborative networks of private and public actors and advocating for innovations.</p>
<p><a href="#">Lifbee Academy</a></p> 	<p>Lifbee academy is looking for talented and motivated individuals with a background in science, IT, marketing, and design. At Lifbee people will receive the educational quality in the fields of biotechnology, marketing, design, and project management. They connect theory with practice. The 8-months Lifbee program enables interdisciplinary collaboration between students and recent university graduates.</p>
<p><a href="#">INNOVATE SLOVAKIA</a></p> 	<p>Innovate Slovakia is a platform that helps the key stakeholders find all opportunities and use them to the maximum. This initiative was created as a collaboration of an innovation consultancy Civitta and SAPIE. The aim is to help entrepreneurs to find the support they need to be successful by centralizing information in one place; show the potential of Slovakia as the birthplace of many successful companies; collect data of investments in startups in Slovakia; and build a community by co-organizing local events and connecting key stakeholders in the innovation ecosystem.</p>
<p><a href="#">SOVVA</a></p>	<p>SOVVA is a non-governmental organization of nationwide competence established to promote R&amp;D development in Slovakia by means of improving R&amp;D capacities, bridging the academic and commercial areas while utilizing international experience and contacts.</p>
<p><a href="#">National technology transfer portal</a></p> 	<p>Portal gives the opportunity for an active access to technology transfer by requirement for some of expert consulting services. It provides search services (e. g. state of art searches) and expert consulting services allowing to ensure the implementation of separate steps in the technology transfer process (e.g. patent application drafting, technology marketing, partner searching in the process of licensing, license agreements drafting, monitoring of license conditions retention policies).</p>
<p><a href="#">FabLab</a></p>	<p>FabLab is an open platform and place for creative activities for designers, developers, artists, students and wide public and provides implementation</p>

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of creative and scientific research ideas. It offers space for familiarization with the work and digital production technologies of the 21st century.

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The National Office of  
Horizon



Horizon Europe is the European Union's 9th framework program to support research and innovation, which in the new period (2021-2027) focuses on promoting excellent science, global challenges and the competitiveness of European industry, and promoting innovation. Program is mainly focused on international cooperation, but some schemes also support individual applicants. The National Office of Horizon was established in Slovakia with the aim to help Slovak applicants to obtain all the necessary information for their participation in it.

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SLORD



Slovak Liaison Office for Research and Development (SLORD) focuses on monitoring and analysis of EU policies and tools for the support of research, development and innovation particularly through the ongoing EU Framework Program for Research and Innovation – Horizon Europe. SLORD provides services in three main areas: providing information; providing support in the preparation of R&I projects; promotion of the Slovak R&D landscape. All services are available free of charge to all Slovak researchers (public and private institutions, SMEs, individuals) as well as researchers coming to Slovakia.

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focused mainly on Life Sciences



aimed at supporting business



support for technology transfer, protection of intellectual property



support in obtaining financing



education support (career and transferable skills)



support networking

## List of Life Sciences companies operating in Bratislava and Trnava region

### A

[Amgen](#)

[Angeliny Pharma](#)

[Astellas Pharma](#)

[AstraZeneca AB](#)

[AXON Neuroscience SE.](#)

[AZOTER Trading s.r.o.](#)

### B

[BASF](#)

[Bayer, spol. s.r.o.](#)

[Beiersdorf Slovakia, s.r.o.](#)

[Berlin-Chemie / A. Menarini Distribution Slovakia s. r. o.](#)

[Biogen Slovakia, s.r.o.](#)

[Bioka](#)

[Biomedox](#)

[Biomim a.s.](#)

[BIONT, a.s.](#)

[BioScience Slovakia s.r.o.](#)

[BioVendor Slovakia](#)

[Boehringer Ingelheim](#)

### C

[Cenvis](#)

[Cord Blood Center SK](#)

[Cytopathos, spol. s.r.o.](#)

### D

[Diplomat Dental s.r.o.](#)

[DNA ERA](#)

[DNA4fit](#)

[DULCIA natural s.r.o.](#)

### E

[Envien group](#)

[EPS Slovensko](#)

[EUROFINS BEL/NOVAMANN s.r.o.](#)

[Evopharm s.r.o.](#)

### G

[Gedeon Richter Slovakia s.r.o.](#)

[GENERICA spol. s.r.o.](#)

[Geneton s.r.o.](#)

[Genexpress s.r.o.](#)

[GHC GENETICS SK](#)

[GSK Slovakia](#)

[Glycanostics s.r.o.](#)

[Goldman Systems, a.s.](#)

[Green-Swan Pharmaceuticals](#)

### H

[Hamel n rds s.r.o.](#)

HealthMode

[Henkel Slovakia s.r.o.](#)

HighChem s.r.o.

[Hilbi Health s.r.o.](#)

### CH

[Chirana Progress s.r.o.](#)

### I

[iBioTech](#)

[IMUNOGLUKAN s.r.o.](#)

[Integra TDS, s.r.o.](#)

[Ipsen Pharma](#)

### J

[Johnson & Johnson](#)

### L

[Laboratóriá Piešťany, spol. s.r.o.](#)

[Lambda Life a.s.](#)

[LEON global s.r.o.](#)

[L' ORÉAL Slovakia s.r.o.](#)

## **M**

[Mabpro a.s.](#)

[MatTek In Vitro Life Science](#)

[Medgene s.r.o.](#)

[MEDICAL GROUP SK a.s.](#)

[MEDIREX GROUP](#)

[Mediworx software solutions, a.s.](#)

[Medpharma](#)

[MERCK Slovakia](#)

[MIKROCHEM group](#)

[MicroStep-MIS](#)

[Moving Medical Media](#)

[MultiplexDX](#)

## **N**

[NanoDesign](#)

[Natures s.r.o.](#)

[NEOPROT spol., s.r.o.](#)

[Nitroterra](#)

[Novartis Slovakia](#)

[Novo Nordisk Slovakia](#)

## **P**

[Pewas](#)

[Pfizer Luxembourg sarl, o.z.](#)

[PHOENIX Zdravotnícke zásobovanie, a.s.](#)

[Powerful Medical](#)

[PROTETIKA](#)

## **R**

[R-DAS](#)

[Roche Slovensko](#)

## **S**

[SanaClis](#)

[Saneca Pharmaceuticals](#)

[S-case s.r.o.](#)

[Seisa](#)

[Selecta Biotech](#)

[Sensoneo](#)

[Siemens Helathineers Slovakia](#)

[Slovgen s.r.o.](#)

[STADA PHARMA Slovakia, s.r.o.](#)

[STU Vital](#)

[SYNKOLA](#)

[SYNLAB Slovakia](#)

## **T**

[TatraMed Software s.r.o.](#)

## **U**

[Unilabs Slovensko, s.r.o.](#)

[UNIMED PHARMA, spol. s.r.o.](#)

## **V**

[VUCHT a.s.](#)

[VULM](#)

## **Z**

[Zdroje Zeme a.s.](#)

[Zentiva, a.s.](#)



Language proficiency\*

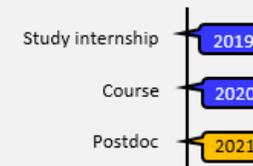
**B2 – C1**

\*the most required language is English



Required skills and abilities

**Comprehensive skill-set**



Average work experience

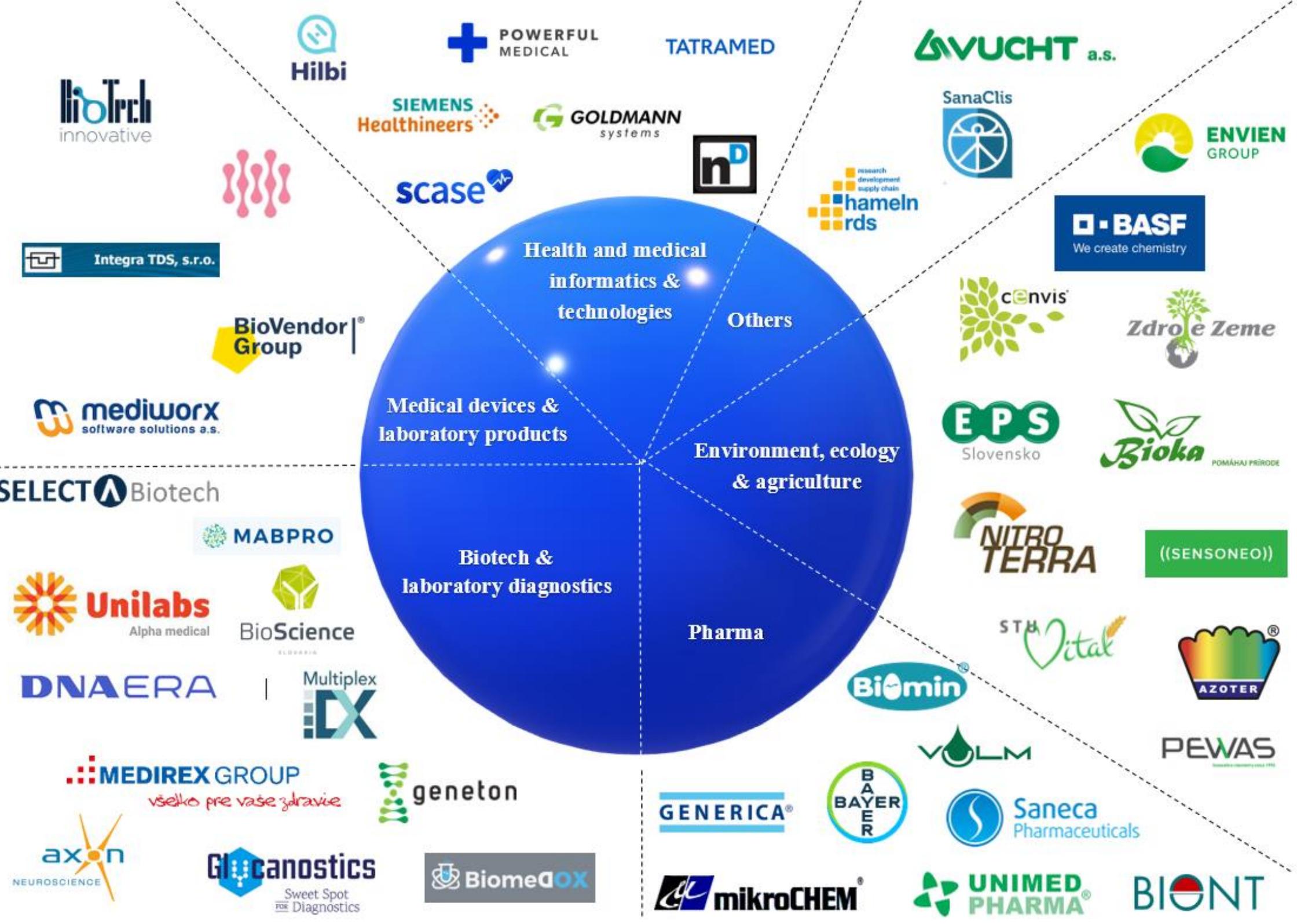
**2 – 3 years**



Average salary\*

**1800 €**

\* 950 – 4000 €, depending on many factors



# **VIENNA REGION**



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## **SUMMARY**

On the Austrian side, the University of Vienna, the University of Natural Resources and Life Sciences Vienna, the Vienna University of Technology and the Medical University of Vienna were used to record life science doctoral students in the academic sector. By registering the student numbers according to the ISCED code, the doctoral students in the natural sciences were recorded according to the different focal areas. The trend in student numbers at doctoral level differs depending on the educational institution - at the University of Vienna itself, however, there has been a clear decline in recent years. In a survey of life science companies in and around Vienna, which was created specifically for the project, 127 companies were recorded, including academic centers and biotechnology companies. The largest share of the companies surveyed were micro-sized (including start-ups). In recent years, there has been an increase in the number of start-ups in the field of life sciences in and around Vienna. The majority of the establishments focus on pharmaceuticals and biotechnology. An overview of the institutions listed in the EURAXESS database shows the broad and quantitatively high demand for highly qualified workers in the field of life sciences, especially in the capital. A list of further scientific institutions shows the opportunity for both career starters and already established researchers to develop and network in this professional field.

## 1. STUDY STATISTICS

This part of the present market analysis includes Austrian universities and companies in the field of Life Sciences. Universities located in Vienna and the surrounding regions as well as companies that meet the inclusion criteria - described in more detail below - were mainly examined. Both student numbers, enrolments and graduations are subject to statistical fluctuations and companies are in a constant state of change - start-ups, for example, also characterize the labor market in the field of Life Sciences in and around Vienna. The job advertisements cited as examples are only valid for a short period of time, but by citing them it is possible to generate the relevant demand for labor in this market sector. The University of Vienna, the University of Natural Resources and Applied Life Sciences Vienna, the Vienna University of Technology and the Medical University of Vienna were used for the statistical processing. All of the universities mentioned have doctoral schools that, in addition to providing the opportunity to gain experience in the field of research, also promote entry into professional life and networking in their scientific field from the very beginning.

**Table 1.** Number of PhD students at Viennese universities - Full-time enrolment in Austria in the winter semester 2020/21 by type of study

Educational institution	Students			Austrian students			Foreign students		
	total	male	female	total	male	female	total	male	female
Total	402 286	182 489	219 797	294 375	133 938	160 438	107 911	48 551	59 358
<b>Doctoral Studies</b>	<b>21 190</b>	<b>11 460</b>	<b>9 730</b>	<b>12 978</b>	<b>7 250</b>	<b>5 728</b>	<b>8 212</b>	<b>4 210</b>	<b>4 002</b>
Public universities	20 375	11 068	9 307	12 683	7 112	5 571	7 692	3 956	3 736
Private universities	813	390	423	295	138	157	518	252	266
Theological schools	2	2	-	-	-	-	2	2	-

**Source:** STATISTIK AUSTRIA, Hochschulstatistik 2020/21. Page accessed 15 October 2021.

The Research Services and Career Development at the University of Vienna offers doctoral students support in managing their studies, advises scientists on funding opportunities and helps with the commercialization of inventions within the framework of technology transfer.

**Table 2.** Number of students in doctoral study/PhD at University of Vienna during winter semester 2020, study by ISCED Code

Winter semester 2020, ISCED code	Absolute value			Percentage of women/men	
	female	male	total	female	male
0511 Biology	262	214	476	55%	45%
0512 Biochemistry	24	8	32	75%	25%
0521 Environmental sciences	15	8	23	65,2%	34,8%
0531 Chemistry	91	99	190	47,9%	52,1%
0532 Earth sciences	42	66	108	38,9%	61,1%
0533 Physics	47	151	198	23,7%	76,3%
0541 Mathematics	29	67	96	30,2%	69,8%
0588 Inter-disciplinary programs and qualifications involving natural sciences, mathematics and statistics	7	8	15	46,7%	53,3%
0688 Inter-disciplinary programs and qualifications involving Information and Communication Technologies	22	84	106	20,8%	79,2%
0913 Nursing and midwifery	19	2	21	90,5%	9,5%
0916 Pharmacy	45	26	71	63,4%	36,6%
<b>Total</b>	<b>2595</b>	<b>2381</b>	<b>4976</b>	<b>52,2%</b>	<b>47,8%</b>

**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

**Table 3.** University of Natural Resources and Life Sciences, Vienna – Universität für Bodenkultur Wien; Doctoral/PhD students by ISCED code, during winter semester 2020

Winter semester 2020, ISCED code	female	male	total	female	male
0522 Natural environments and wildlife	7	0	7	100%	0%
0588 Inter-disciplinary programs and qualifications involving natural sciences, mathematics and statistics	1	0	1	100%	0%
0711 Chemical engineering and processes	150	150	300	50%	50%
0712 Environmental protection technology	1	2	3	33,3%	66,7%
0811 Crop and livestock production	102	81	183	55,7%	44,3%
0821 Forestry	38	77	115	33%	67%
0731 Architecture and town planning	35	32	67	52,2%	47,8%
0888 Inter-disciplinary programs and qualifications involving agriculture, forestry, fisheries and veterinary	1	1	2	50%	50%
<b>Total</b>	<b>394</b>	<b>467</b>	<b>861</b>	<b>45,8%</b>	<b>54,2%</b>

**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

Ten doctoral programs are offered at the University of Natural Resources and Life Sciences in Vienna. Among them are six interdisciplinary and program-specific doctoral schools. 9.2% of the employed doctoral students are employed by one of the strategic portfolio companies. In addition to Wassercluster Lunz GbmH, the following COMET centers are among BOKU's strategic affiliates that employ doctoral students: I acib GmbH (Austrian Center of Industrial Biotechnology) I BEST – Bioenergy and Sustainable Technologies GmbH I FFOQSI GmbH (Austrian Competence Centre for Feed and Food Quality, Safety and Innovation) I Kompetenzzentrum Holz GmbH (Wood K plus). (Source: Wissensbilanz BOKU 2020, p.33 [https://boku.ac.at/fileadmin/data/H05000/H13000/Publikationen/Wissensbilanzen/Wissensbilanz\\_2020/Wissensbilanz-2020\\_72dpi\\_DS\\_high.pdf](https://boku.ac.at/fileadmin/data/H05000/H13000/Publikationen/Wissensbilanzen/Wissensbilanz_2020/Wissensbilanz-2020_72dpi_DS_high.pdf))

**Table 4.** Doctoral students and completion of doctoral studies at Vienna University of Technology

	<b>female</b>	<b>male</b>	<b>EU</b>	<b>Non-EU</b>	<b>Total</b>
Doctorate winter semester 2019	578	1569	416	375	2147
Completion of Studies Doctorate, winter semester 2019/20	64	200	46	49	264

**Source:** Vienna University of Technology: “TU Wien In Numbers”, 2020, p.1-2, Link: [https://www.tuwien.at/fileadmin/Assets/tu-wien/Ueber\\_die\\_TU\\_Wien/In\\_Zahlen/TUW\\_in\\_Zahlen\\_2020\\_web.pdf](https://www.tuwien.at/fileadmin/Assets/tu-wien/Ueber_die_TU_Wien/In_Zahlen/TUW_in_Zahlen_2020_web.pdf)

**Table 5.** Doctoral/PhD students at Vienna University of Technology by ISCED code during winter semester 2020

<b>Winter semester 2020, ISCED code</b>	<b>female</b>	<b>male</b>	<b>total</b>	<b>female</b>	<b>male</b>
0533 Physics	47	151	198	23,7%	76,3%
0541 Mathematics	20	72	92	21,7%	78,3%
0588 Natural sciences, mathematics and statistics, inter-disciplinary programs	22	33	55	40%	60%
0711 Chemical engineering and processes	110	202	312	35,3%	64,7%
0713 Electricity and energy	42	253	295	14,2%	85,8%
<b>Total</b>	<b>567</b>	<b>1474</b>	<b>2041</b>	<b>27,8%</b>	<b>72,2%</b>

**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

**Table 6.** Studies in medicine taken at public universities in the winter semester 2019/20 by type of study and field of study

	Students			Austrian students			Foreign students		
	total	male	female	total	male	female	total	male	female
Medicine	12286	5677	6609	8341	3840	4501	3945	1837	2108
Health and care science (Bachelor)	77	7	70	72	6	66	5	1	4
Health and care science (Master)	56	8	48	52	7	45	4	1	3
Human Medicine (Bachelor)	573	261	312	428	179	249	145	82	63
Human Medicine (Diploma)	10125	4781	5344	6823	3243	3580	3302	1538	1764
Human Medicine (Master)	133	72	61	91	48	43	42	24	18
Molecular medicine (Bachelor)	110	38	72	75	29	46	35	9	26
Molecular medicine (Master)	73	21	52	43	12	31	30	9	21
Dentistry (Diploma)	1139	489	650	757	316	441	382	173	209

**Source:** Statistik Austria, Bildung in Zahlen, Tabellenband, 2021 p. 399, Link: [https://pic.statistik.at/web\\_de/services/publikationen/5/index.html?includePage=detailedView&sectionName=Bildung&pubId=509](https://pic.statistik.at/web_de/services/publikationen/5/index.html?includePage=detailedView&sectionName=Bildung&pubId=509)

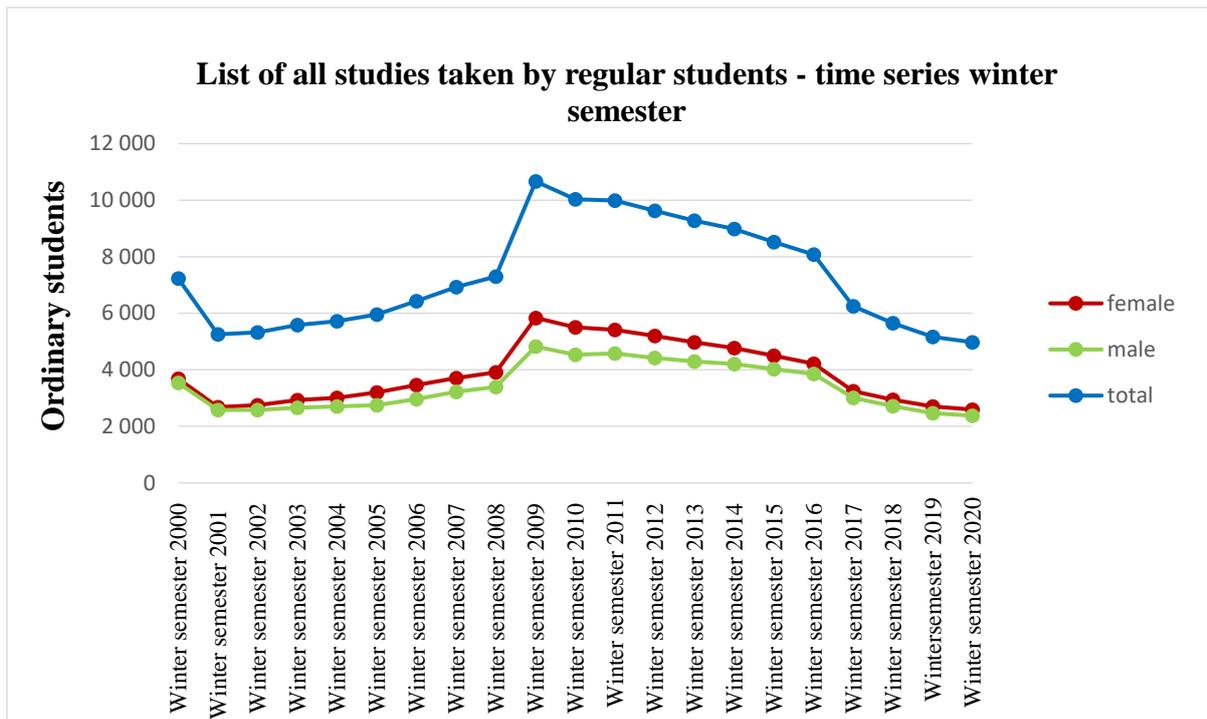
When studying human medicine at the Medical University of Vienna, it should be noted that it is a diploma program, although the degree is completed with a doctorate.

**Table 7.** Doctoral Students in Med Uni Vienna by ISCED Code 0912, during winter semester 2020

Semester and ISCED code	female	male	total	female	male
Winter semester 2020 Medicine 0912	712	615	1 327	53,7%	46,3%

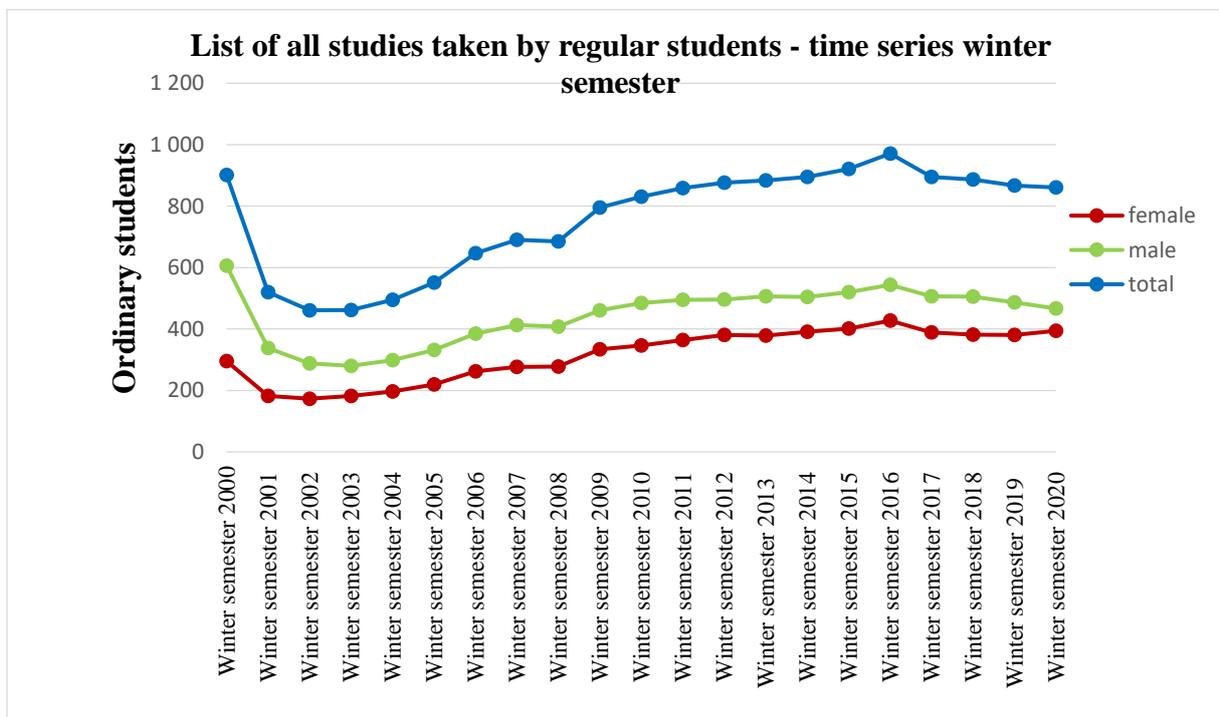
**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

The development of the number of PhD holders over the last twenty years has seen several fluctuations. Depending on the type of university, rising or falling student numbers can be observed. The decrease in the number of doctoral students at the University of Vienna is particularly clear, while an increase is noticeable at the Medical University of Vienna.



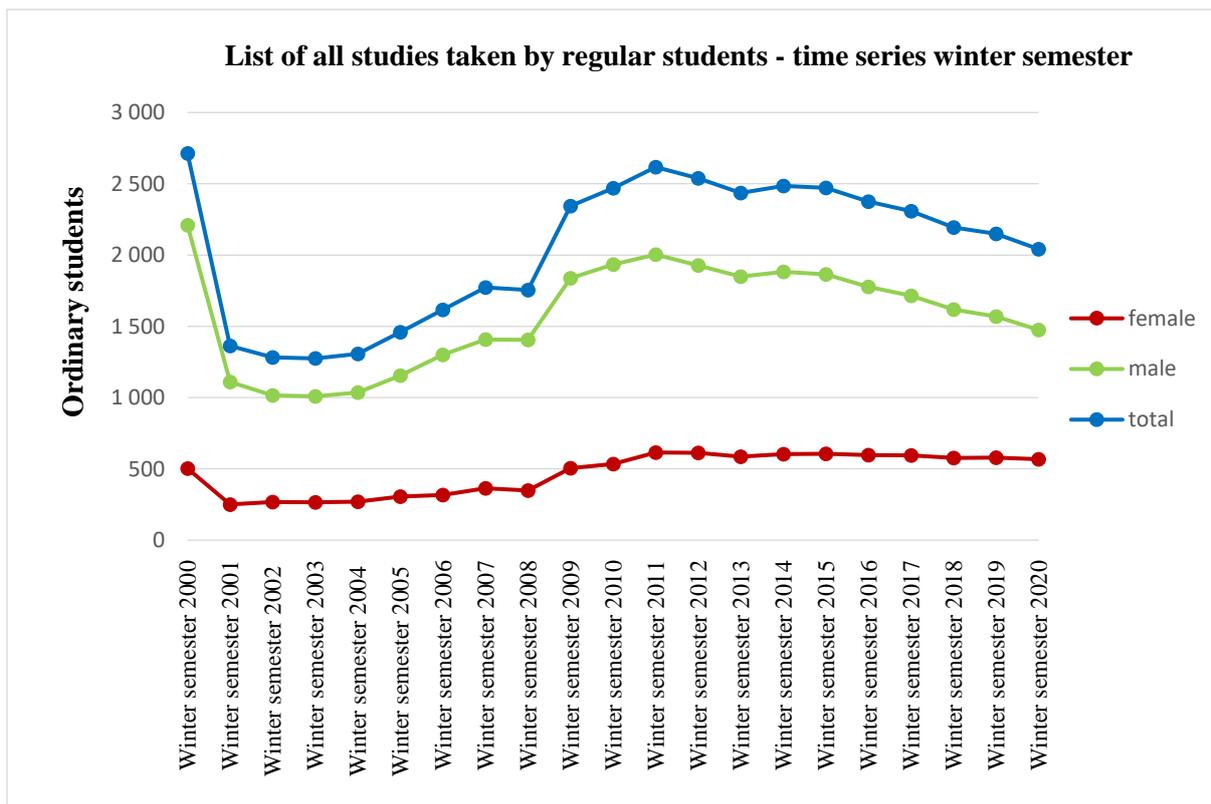
**Figure 1.** Time series Development of doctoral students - University of Vienna

**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

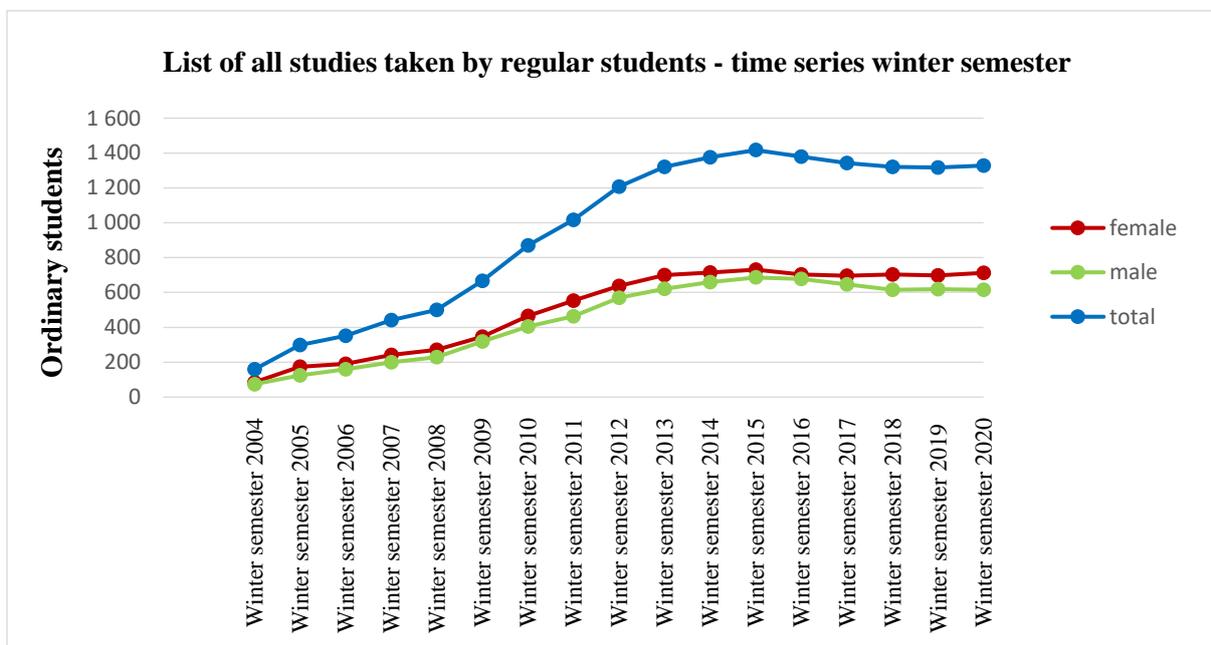


**Figure 2.** Time series Development of doctoral students - University of Natural Resources and Life Sciences, Vienna

**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.



**Figure 3.** Time series Development of doctoral students - Vienna University of Technology  
**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.



**Figure 4.** Time series Development of doctoral students - Medical University Vienna  
**Source:** unidata.gv.at, Federal Ministry of Education, Science and Research, unidata - Datawarehouse, Higher Education Sector, Data reported by universities on the basis of UHSBV as of the respective reporting date.

**Table 8.** Studies taken in Austria in the winter semester 2020/21 according to type of study

Educational institution	Students			Domestic students			Foreign students		
	total	male	female	total	male	female	total	male	female
Total	402 286	182 489	219 797	294 375	133 938	160 438	107 911	48 551	59 358
<b>Doctoral studies</b>	<b>21 190</b>	<b>11 460</b>	<b>9 730</b>	<b>12 978</b>	<b>7 250</b>	<b>5 728</b>	<b>8 212</b>	<b>4 210</b>	<b>4 002</b>
Public universities	20 375	11 068	9 307	12 683	7 112	5 571	7 692	3 956	3 736
Private universities	813	390	423	295	138	157	518	252	266
Universities of Applied Sciences	-	-	-	-	-	-	-	-	-
Universities of education	-	-	-	-	-	-	-	-	-
Theological colleges	2	2	-	-	-	-	2	2	-

**Source:** STATISTIK AUSTRIA, Hochschulstatistik. Erstellt am 15.10.2021.

[https://www.statistik.at/web\\_de/statistiken/menschen\\_und\\_gesellschaft/bildung/hochschulen/studierende\\_belegte\\_studien/126904.html](https://www.statistik.at/web_de/statistiken/menschen_und_gesellschaft/bildung/hochschulen/studierende_belegte_studien/126904.html)

**Table 9.** Ordinary degrees in Austria in the academic year 2019/20 by type of study

Educational institution	Students			Domestic students			Foreign students		
	total	male	female	total	male	female	total	male	female
Total	57 131	25 069	32 063	43 377	19 138	24 240	13 753	5 930	7 823
<b>Doctoral studies</b>	<b>2 189</b>	<b>1 288</b>	<b>901</b>	<b>1 367</b>	<b>852</b>	<b>515</b>	<b>822</b>	<b>436</b>	<b>386</b>
Public universities	2 157	1 274	883	1 346	841	505	811	433	378
Private universities	31	13	18	20	10	10	11	3	8
Uni. of Applied Sciences	-	-	-	-	-	-	-	-	-
Universities of education	-	-	-	-	-	-	-	-	-
Theological colleges	1	1	-	1	1	-	-	-	-

**Source:** STATISTIK AUSTRIA, Hochschulstatistik. Erstellt am 15.10.2021.

[https://www.statistik.at/web\\_de/statistiken/menschen\\_und\\_gesellschaft/bildung/hochschulen/studienabschluesse/126905.html](https://www.statistik.at/web_de/statistiken/menschen_und_gesellschaft/bildung/hochschulen/studienabschluesse/126905.html)

## 2. LIFE SCIENCES SECTOR EMPLOYERS

Sector mapping Vienna region:

For this part of the market analysis, companies with a focus on Life Sciences in Vienna and the surrounding area were recorded. The search results were divided into the sub-sectors: agriculture, bioinformatics, biotechnology, diagnostics, human health, industrial processing, medical devices, molecular biology, pharma and veterinarian. We identified a **total of 127 Life Sciences companies** in the wider Vienna region, out of which **68 met the inclusion criteria**. Among these companies are only those that focus on the respective scientific area of the subcategory – suppliers, service providers or sales companies were sorted out. An overall searching strategy with a focus on identifying Life Sciences companies (startups, small, middle and big companies) is displayed in Figure 5.

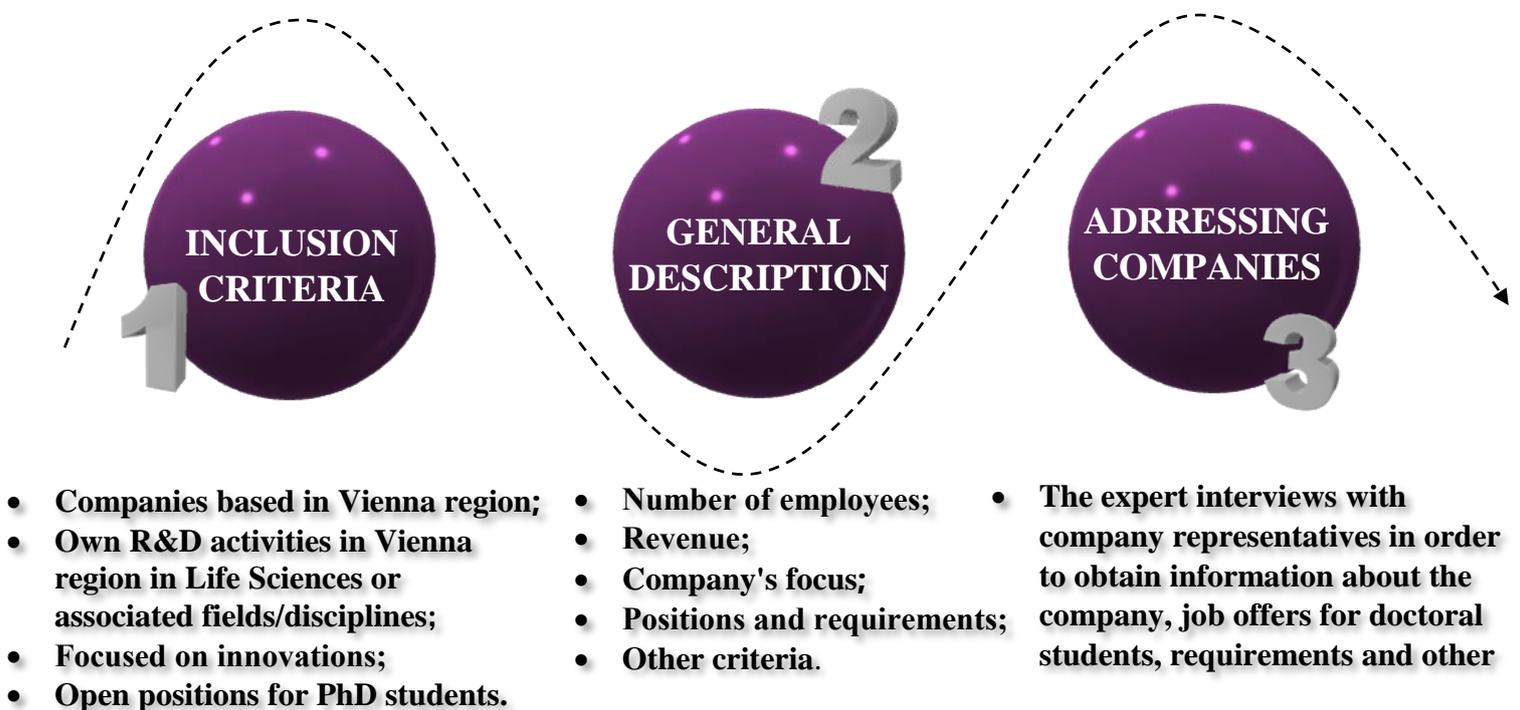
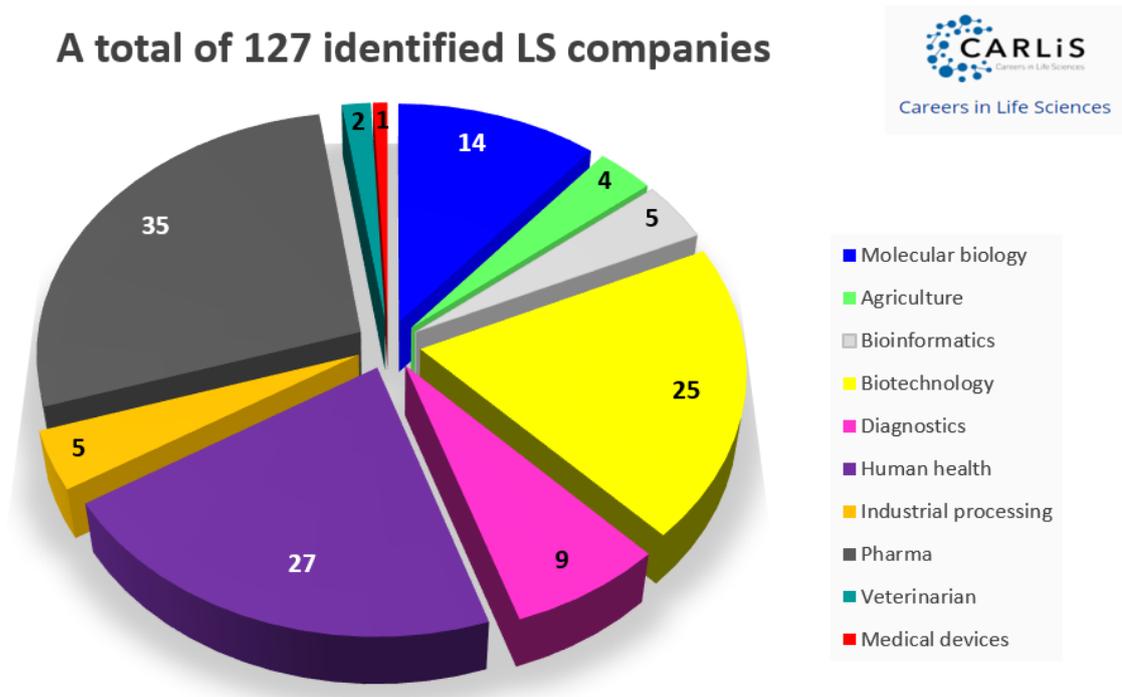
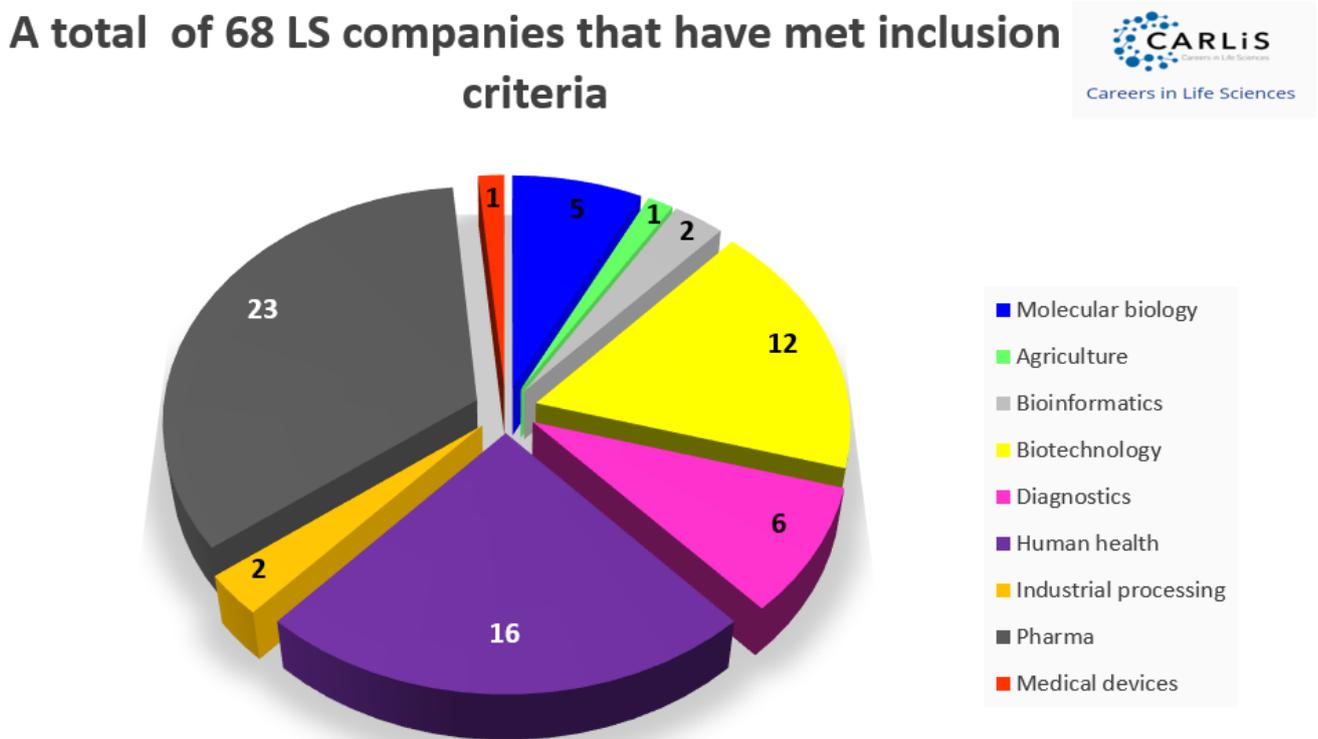


Figure 5. Searching strategy



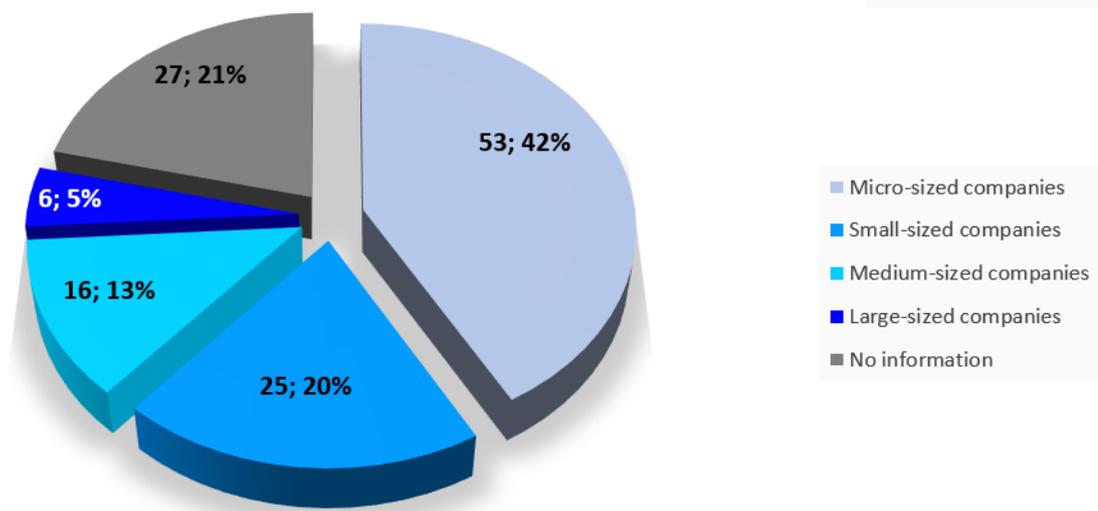
**Figure 6.** Characteristics of all identified Life Sciences (LS) companies based in Vienna region



**Figure 7.** Characteristics of Life Sciences (LS) companies based in Vienna region that have met inclusion criteria

Companies can be classified in different categories according to their size; for this purpose, different criteria may be used, but the most common is number of people employed. Small and medium-sized companies are divided into micro companies (1-9 employees), small companies (10 to 49 employees), medium-sized companies (50 to 249 employees). Large companies employ 250 or more people. Of the 127 companies in total, 41,7% were micro-sized (including startups), 19,7% were small-sized, 12,6% were medium-sized and 4,7% were large-sized companies. 27 companies (21,3%) were excluded from the analysis due to data unavailability and trade termination.

### Size of the LS companies based on the number of employees



**Figure 8.** Size of the Life Sciences (LS) companies that have met inclusion criteria based on the number of employees

In recent years, an increase in the number of companies founded in the Life Sciences sector, and in particular in the pharmaceutical and biotechnology sectors, has been observed in Vienna and the surrounding area. The majority of Austrian companies in the Life Sciences sector are headquartered in Vienna. Here, a significant increase in sales of 9% was observed in 2020 compared to 2017. The majority of this increase in sales was recorded by those companies operating in the field of pharmaceuticals and biotechnology. (cf. Vienna Life Science report 2021/22, p. 14)

**Table 10.** Key figures for Life Sciences companies in Vienna for 2014, 2017 and 2020

	Companies			Employees			Revenues in €m		
	2014	2017	2020	2014	2017	2020	2014	2017	2020
Life Sciences (in total)	434	481	511	22,125	22,930	24,250	9,919	12,214	13,285
Biotech/pharma*	216	239	260	13,950	14,040	15,130	6,748	8,774	9,487
Medical device**	218	242	251	8,175	8,890	8,890	3,171	3,440	3,798
Research, development, manufacturing	133	177	204	10,335	12,800	13,560	3,030	6,215	6,875
Biotech/pharma	97	126	139	8,370	10,520	11,180	1,904	5,094	5,608
Medical device	36	51	65	1,965	2,280	3,380	1,126	1,121	1,267
Sales, suppliers, service providers	301	304	307	11,790	10,130	10,690	6,889	5,999	6,411
Biotech/pharma	119	113	121	5,580	3,520	3,950	4,844	3,680	3,879
Medical device	182	191	186	6,210	6,610	6,740	2,045	2,319	2,531

**Source:** Vienna Life Science Report 2021/22, p. 15

\*Vienna Life Science Austria includes dedicated biotech companies as well as biotech active companies, pharma companies, suppliers, service providers and sales companies

\*\*Vienna Life Science Austria includes dedicated medical device companies as well as companies active in medical devices, suppliers, service providers and sales companies

**Table 11.** Investments in Viennese Life Sciences companies 2020

Investment volume 2020 (excl. Investments with undisclosed financial details)			
Date	Company	Details	€ million
Q1/2020	CALYXHA GmbH	Venture capital	not disclosed
Q1/2020	PIUR imaging GmbH	Crowdfunding	0,5
Q1/2020	SzeleSTIM GmbH	Crowdfunding	0,3
Q1/2020	Valneva SE	Healthcare Funds Investment	74,8
Q1/2020	XUND Solutions GmbH	Business angels investment	not disclosed
Q2/2020	APEIRON Biologics AG	Venture capital	17,5
Q2/2020	APEPTICO GmbH	H2020 grant	1,6
Q2/2020	CEBINA GmbH	Private investment	not disclosed
Q2/2020	contextflow GmbH	Venture capital	not disclosed
Q2/2020	contextflow GmbH	H2020 grant, EIC	1,2
Q2/2020	EveliQure GmbH	Private investment	0,44
Q2/2020	Nabriva Therapeutics	US government financing (NIAID)	18,1
Q3/2020	F2G Biotech GmbH	Venture capital	53,5
Q3/2020	Biome Diagnostics GmbH	Investment and COVID-19 grant	not disclosed
Q4/2020	Carl Reiner GmbH	"Stolz auf Wien" investment	not disclosed
Q4/2020	HOOKIPA Pharma	Public offering	71,2
Q4/2020	Nabriva Therapeutics AG	Public offering	13,2
Q4/2020	usePAT GmbH	Business angels investment	

**Source:** Vienna Life Science Report 2021/22, p. 71

**Table 12.** An example of positions available for PhD students/holders during the reference period

Position	Job description	Gross salary
<b>Laboratory Technician Pfizer Austria</b>  	<ul style="list-style-type: none"> <li>• Independent planning, execution and evaluation of quality control tests.</li> <li>• Execution of validations of analytical methods including documentation in the team.</li> <li>• Monitoring of test parameters (control charts).</li> <li>• Monitoring of technical equipment as well as keeping of related documentation (e.g. logbooks etc.).</li> </ul>	<p>According to collective agreement. Minimum salary € 37,756.32 gross per year based on full-time employment. A possible overpayment is dependent on relevant professional experience and/or qualifications.</p>
<b>MSD Merck Sharp &amp; Dohme GmbH Senior Scientist (m/f/d)</b>  	<ul style="list-style-type: none"> <li>• Scientific support and assay development.</li> <li>• Design and perform experiments to support qualification of various assays.</li> <li>• Review and discuss relevant literature with other team members.</li> <li>• Organize the conduct of in-house experiments with laboratory staff</li> </ul>	<p>The minimum annual salary for this position is EUR 3.865 gross/month.</p>
<b>Medical Scientific Liaison Immunology (Dermatology) (m/f/d) Sanofi</b>  	<ul style="list-style-type: none"> <li>• Management of ongoing medical projects in the area.</li> <li>• Development of individual, customer-oriented concepts pursuing a close collaboration with Sanofi Genzyme in the field of immunological therapy.</li> <li>• Planning of medical-scientific projects according to international, national and in-house guidelines.</li> <li>• Provision of medical-scientific information and data for communication to health policy target customers (data on medicine, epidemiology, care structure, pharmaceutical economics, etc.).</li> </ul>	<p>The minimum salary for this position is € 2284, depending on individual qualifications there is a willingness to overpay.</p>
<b>Technical Assistant QC Analytics (m/f/d) Valneva</b>  	<ul style="list-style-type: none"> <li>• Testing of release and stability samples for market products using various analytical methods (ELISA, HPLC, UV/VIS spectrophotometry, cell-based assays, ICP-OES, etc.).</li> <li>• Ensure compliance with SOPs and all relevant regulatory and legal requirements.</li> <li>• Cultivation of eukaryotic cells and performance of cell-based assays.</li> <li>• Review of analytical data.</li> </ul>	<p>For this position, a salary is offered in line with the market, which corresponds to qualifications and previous professional experience. For legal reasons, it's pointed out that a minimum salary of EUR 34,000 gross per year (full-time basis) is applied.</p>
<b>Medical Science Liaison (m/f/d) career starters welcome</b>	<ul style="list-style-type: none"> <li>• Targeted development of a strong scientific network with key opinion leaders.</li> </ul>	<p>This job is endowed with a gross monthly salary of EUR 3,500. Depending</p>

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Abbvie

abbvie

- Expert and contact person in the field for medical inquiries in selected centres in private practice and in clinics within Austria.
- Leading high-quality project related discussions with health care professionals for the implementation of joint projects.

on your personal qualifications and experience, there is a willingness to overpay.

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MSL Specialty Care

GSK

GlaxoSmithKline Pharma GmbH



- The Specialty Care team currently manages approved and pipeline monoclonal antibodies in the therapeutic areas of Covid-19, severe asthma, and three other eosinophilic diseases.
- Support and close cooperation with the medical, access and commercial team.
- Close network to the global medical teams with proactive contribution.
- Supervision of external experts regarding scientific questions and projects.
- Briefing of experts regarding presentations on GSK products.
- Support in clinical trials, Investigator Sponsored Studies (ISSs) and GSK studies.

Annual gross salary in line with the market from EUR 58,000 with corresponding overpayment, depending on qualifications and relevant experience.

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**International Product Manager Cardiology & Pulmonology (f/m/d)**  
**AOP Orphan Focus on rare diseases**



- Preparation of Brand Marketing and Strategy Plans for AOP Orphan territories/partners.
- Identification of opportunities for life cycle management.
- You implement and follow up brand activities in cooperation with country organizations.
- You leverage customer insights and emerging needs to create innovative solutions.

The gross monthly salary provided for this function is a minimum of € 4.500.- based on full-time employment. Any potential overpayment depends on professional experience and qualifications.

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**Research Scientist – Molecular and Cell Biology, Nucleic Acid Research and Assay Development (full time, all genders)**  
**Lexogen GmbH**



- Development of novel assays for nucleic acid characterization with a focus on single cell sequencing.
- Designing, organizing and realization of experiments with external partners.
- Providing scientific expertise through hands-on experience and literature research.
- Instructing and leading of technical assistants.
- NGS data analyses, sound reporting, and preparation of publication ready material to support marketing.

Remuneration will be according to experience and performance. (Disclaimer according to Austrian Law: Minimum base salary according to collective agreement for utilization group III is EUR 1957,64 per month (14x/year) for a full-time position.)

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<b>Regulatory Affairs Strategy Product Lead (f/m/x) Takeda Austria GmbH</b>	<ul style="list-style-type: none"> <li>• This is to occur in close collaboration with relevant different Business Unit's Commercial functions to obtain, maintain and extend Takeda PDT BU product registrations in the European Union, GB, CH, SEE, Israel, and Palestine and under the overall direction of the Head, EU Regulatory Affairs Strategy.</li> </ul>	No salary information.	
	<b>Senior Manager, Head of Country PV Austria (m/w/d) Bristol Myers Squibb</b>	<ul style="list-style-type: none"> <li>• Implementation of pharmacovigilance Audit and Inspection Readiness.</li> <li>• Planning, processing and reporting of Aggregate Reports to HA and EC (as required).</li> <li>• Maintenance of pharmacovigilance Awareness and Training.</li> <li>• Implementation of Pharmacovigilance Agreements.</li> </ul>	No salary information.
	<b>Country Patient Safety Head (f/m/d), Patient Safety – Global Drug Development (GDD), Vienna, Austria Novartis Austria</b>	<ul style="list-style-type: none"> <li>• The Country Patient Safety Head is responsible for the management of vigilance processes at Country Organization level in ensuring compliance with global/local Novartis procedures, national and international regulations/standards/guidelines for pharmacovigilance of Novartis marketed and investigational products.</li> </ul>	No salary information.
			

### Work experience:

Ranging from career starters to a minimum of 10 years of experience that is required.

Working experience isn't always identified by years of employment but in scientific background and research experience (PhD Thesis).

Some of the fields where experience is requested: pharmaceutical industry, immunology, dermatology.

### Language proficiency:

Excellent and fluent written and spoken English is a basic requirement in the vast majority of job opportunities.

### Salary:

Salary is usually determined depending on professional experience. However, some of the companies do not provide more detailed information about the expected salary. They only emphasize the legal minimum wage, which, however, is to be overpaid. The majority of the open positions are full-time.

## Required knowledge, skills and abilities

**Table 13.** Employers' requirements for PhD students'/holders' skills

General	Specific
<ul style="list-style-type: none"> <li>• Project planning and management</li> <li>• Broad scientific and operational knowledge</li> <li>• Understanding of compliance policy and its application</li> <li>• Strong ability to work in a team</li> <li>• Strong communication skills</li> <li>• Guidance and leadership</li> <li>• Ability to manage multiple tasks and utilize effective problem-solving approaches and independently follows up and resolves outstanding issue</li> <li>• Strategic and critical thinking combined with excellent networking skills</li> <li>• Strong ability to manage and develop people</li> <li>• Commitment to Diversity &amp; Inclusion</li> <li>• High willingness to perform and self-motivation</li> </ul>	<ul style="list-style-type: none"> <li>• knowledge of EU regulatory requirements</li> <li>• Design, organize, and perform experiments at collaboration partner labs</li> <li>• Willingness to travel</li> <li>• Professional appearance</li> <li>• experience in EU drug/biologics development in the biopharmaceutical or biotechnology industry</li> <li>• Be involved in the review of all pre- and post-authorization studies</li> <li>• assist to identify and implement experimental strategies to support pipeline development</li> <li>• Flexible in working hours (Depending on workload)</li> <li>• Flexibility regarding tasks (tasks might change over time)</li> <li>• Open to new projects and tasks</li> <li>• To be precise and reliable</li> <li>• To be proactive and communicative</li> <li>• Self-confident to approach KOL and/or industrial partners</li> <li>• Successful in managing brands</li> </ul>

## Vacancies for PhD holders at selected faculties

**Table 14.** Job opportunities for PhD students/holders at University of Vienna

<b>University of Vienna</b>			
 <b>universität wien</b>			
Main research field	Department	Position	No. of offered positions
Pharmacy, Pharmacology, Toxicology	Department of Pharmaceutical Sciences, post doc	University Assistant (post doc) at the Department of Pharmaceutical Sciences	1
Physics, Astronomy	Department of Astrophysics, post doc	University Assistant (post doc) at the Department of Astrophysics	1
Faculty of Physics	Physics of Nanostructured Materials, post doc	University Assistant (post doc) at the Physics of Nanostructured Materials	1
Centre of Microbiology and Environmental Systems Science	Department of Microbiology and Ecosystem Research	University Assistant (prae doc) at the Vienna Doctoral School in Microbiology and Environmental Science	2
Biology	Centre for Molecular Biology (ZMB)	University Assistant (prae doc) at the Department of Chromosome Biology	1

### Requirements for the employee:

- PhD in the field of Natural Sciences;
- Experience in the writing of scientific publications in the field;
- Doctoral degree/PhD degree in physics or a closely related field;
- Excellent command of written and spoken English;
- Active participation in research, teaching and administration;
- Involvement in research projects;
- Publications and presentations Knowledge of university processes and structures;
- Experience abroad;
- Experience of supervising students.

**Table 15.** Job opportunities for PhD students/holders at University of Natural Resources and Life Sciences, Vienna

<b>University of Natural Resources and Life Sciences, Vienna</b>			
			
<b>Main research field</b>	<b>Department</b>	<b>Position</b>	<b>No. of offered positions</b>
Engineering, Civil engineering	Department of Civil Engineering and Natural Hazards, Euraxess	Postgraduate Research Associate (temporary replacement)	2
Economics › Agricultural economics	Department of Economics and Social Sciences, Institute of Sustainable Economic Development, Euraxess	Postdoctoral Research Associate (temporary replacement) /	1
Food technology, food engineering or bioprocess engineering	Department of Food Science and Technology, Institute of Food Technology	Research assistant with doctorate in research and teaching	1
Thermal or mechanical unit operations linked to food technology, food process engineering or bio process engineering	Department of Food Science and Technology, Institute of Food Technology	Postdoctoral Research Associate	1
Genetic adaptation potential of oak species, hybrids, seed crop stands and plantations	Department of Forest and Soil Sciences, Institute of Silviculture	Chemical technician	1
Food technology, food process engineering	Department of Food Science and Technology, Institute of Food Technology	Research assistant with doctorate in research and teaching	1
Food Analytics	Department of Food Science and Technology, Institute of Food Technology	Laboratory Technician Food Analysis	1

**Requirements for the employee:**

- Independent holding of course exercises;
- Independent work in research and participation in associated teaching;
- Take over administrative tasks;
- Preparations for a dissertation topic in the field of structural mechanics or structural engineering are desirable;
- Publications in relevant journals;
- Experience in handling of large (spatial) data sets;
- Experience in raising third-party funding, e.g. Austrian Science Fund;
- Experience in working in international research groups;
- Excellent command of the German and English language.

**Table 16.** Job opportunities for PhD students/holders at Vienna University of Technology

<b>Vienna University of Technology</b>			
			
<b>Main research field</b>	<b>Department</b>	<b>Position</b>	<b>No. of offered positions</b>
Informatics	Faculty of informatics	Expert_expert for public relations and science communication	1
Automation Systems	Institute for Computer Engineering	University assistant (Post-Doc)	1
Activation and conversion of carbon dioxide to valuable substances	Doctoral College CO2Refinery	University assistant (Prae-Doc)	1
Biomedical Electronics	Institute of Electrodynamics, Microwave and Circuit Engineering	Technical employee (electronics)	1
Biomedical Electronics	Institute of Electrodynamics, Microwave and Circuit Engineering	Biomedical Technical Assistant	1
Waste management and resource management	Institute for Water Quality and Resource Management	University assistant (Prae-Doc)	2
	IT Solutions TU.it	Data Visualization Engineer (m/f)	1
Technological fields related to molecular bioengineering, biophysics & biochemistry, biomechanics, biological imaging, biomaterials, computational modelling, and tissue engineering	ENROL	University assistant (Prae-Doc)	
LogiCS@TUWien - Logics for Computer Science Program at TU Wien	Marie Skłodowska-Curie COFUND	University assistant (Prae-Doc)	

**Table 17.** Job opportunities for PhD students/holders at Medical University of Vienna

<b>Medical University of Vienna</b>			
 <b>MEDICAL UNIVERSITY OF VIENNA</b>			
<b>Main research field</b>	<b>Department</b>	<b>Position</b>	<b>No. of offered positions</b>
Clinical Department of Visceral Surgery	University Hospital for General Surgery	Medical specialist	1
Clinical Department of Cardiothoracic Vascular Surgery Anesthesia and Intensive Care Medicine	University Department of Anesthesia, General Intensive Care Medicine and Pain Therapy	Doctor in residency training in the special subject “Anesthesiology and Intensive Care Medicine“	1
Dermatology	University Clinic for Dermatology	Medical specialist	1
Ethics, Collections and History of Medicine (Chair History of Medicine).	Organizational unit with special service function	Assistant / Assistant (postdoc)	1
Pediatric and adolescent surgery	University Hospital for Pediatric and Adolescent Surgery	Doctor in residency training in the special field of “pediatric and adolescent surgery“	1
Neurology	University Hospital for Neurology	Doctor in residency training in the special field of “Neurology“	1
Neurology	University Hospital for Neurology	Medical specialist	1
Clinical Department of Visceral Surgery	University Hospital for General Surgery	Assistant (postgraduate)	1
Clinical Department of Pulmonology	University Hospital for Internal Medicine II	Medical specialist	1
Clinical Department of Neonatology, Pediatric Intensive Care Medicine and Neuropediatric	University Hospital for Pediatrics and Adolescent Medicine	Doctor in residency training in the special field of “Pediatrics and Adolescent Medicine“	1
Clinical Division of Pediatric Cardiology	University Hospital for Pediatrics and Adolescent Medicine	Doctor in residency training in the special field of “Pediatrics and Adolescent Medicine“	1
Clinical Division of Pediatric Cardiology	University Hospital for Pediatrics and Adolescent Medicine	Medical specialist	1
Clinical Department of Trauma Surgery	University Hospital for Orthopedics and Trauma Surgery	Doctor in residency training in the special field of	1

		“Orthopedics and Traumatology“	
Institute for Hygiene and Applied Immunology	Centre for Pathophysiology, Infectiology and Immunology	Assistant (postgraduate)	1
Institute for Hygiene and Applied Immunology	Centre for Pathophysiology, Infectiology and Immunology	Assistant (postdoc)	1
	University Hospital for Plastic, Reconstructive and Aesthetic Surgery	Medical specialist	1
	University Hospital for Plastic, Reconstructive and Aesthetic Surgery	Ward doctor	1
Clinical Department of General Radiology and Pediatric Radiology	University Department of Radiology and Nuclear Medicine	Doctor in residency training in the special subject “radiology“	1
Clinical Department of Visceral Surgery	University Hospital for General Surgery	Ärztin / Arzt in Facharztausbildung im Sonderfach „Allgemein- und Viszeralchirurgie“	1
Clinical Department of Transplantation	University Hospital for General Surgery	Medical specialist	1
Department of Cell and Developmental Biology	Centre for Anatomy and Cell Biology	Senior Scientist (f/m/d)	1
	University Clinic for Dermatology	Assistant (postdoc)	1
	University Hospital for Gynecology	Doctor in specialist training in the special subject "gynecology and obstetrics	1
Department of Neuronal Cell Biology	Centre for Brain Research	Assistant (postdoc)	1
Clinical Department of Cardiology	University Hospital for Internal Medicine II	Doctor in residency training in the special subject “Internal Medicine“	1
	University Hospital for Child and Adolescent Psychiatry	Doctor in residency training in the special field of "child and adolescent psychiatry“	1
Department of Neuropathology and Neurochemistry	University Hospital for Neurology	Doctor in residency training in the special subject “Clinical Pathology and Neuropathology“	1

Institute for Hygiene and Applied Immunology	Centre for Pathophysiology, Infectiology and Immunology	Medical specialist	1
Institute for Hygiene and Applied Immunology	Centre for Pathophysiology, Infectiology and Immunology	Ward doctor	1
	University Hospital for Plastic, Reconstructive and Aesthetic Surgery	Assistant (postgraduate)	1
Clinical Department of Neuroradiology and Musculoskeletal Radiology	University Department of Radiology and Nuclear Medicine	Physician in residency training in the special subject "radiology"	1
	University Hospital for Thoracic Surgery	Ward doctor	1

### 3. PROFESSIONAL DEVELOPMENT OPPORTUNITIES

**Table 18.** Examples for information sources useful for increasing knowledge, skills and experience of PhD candidates in Life Sciences – non-university research organizations

Source of information	Short description
<p><a href="#">CeMM – Research Center for Molecular Medicine</a></p> 	<p>CeMM is an international, independent and interdisciplinary Research Centre for Molecular Medicine of the Austrian Academy of Sciences. “From the clinic to the clinic”: Driven by medical needs, CeMM integrates basic research and clinical expertise to pursue innovative diagnostic and therapeutic approaches focused on cancer, inflammation and immune disorders. The PhD Program will train a new generation of researchers based on a novel, post-genomic, molecular understanding of biological and pathological systems and will thereby contribute to shaping the predictive, preventive and personalized (also termed “precise”) medicine of the future.</p> <p><a href="https://cemm.at/phd-program">https://cemm.at/phd-program</a></p>
<p><a href="#">Gregor Mendel Institute of Molecular Plant Biology (GMI)</a></p> 	<p>The GMI offers technical and administrative positions, as well as education for bachelor education through postdocs. PhD Students at the GMI are recruited twice a year in March and September through the Vienna BioCenter PhD Program, jointly run by the GMI, IMBA, IMP, and MFPL. The Vienna BioCenter PhD program encourages students to positively contribute to the advancement of science by making and publishing important scientific discoveries. The training program will allow students to acquire scientific skills, which are important for a career in science, but also for other career paths.</p> <p><a href="https://www.oeaw.ac.at/gmi/career-education/opportunities">https://www.oeaw.ac.at/gmi/career-education/opportunities</a></p>
<p><a href="#">St. Anna Kinderkrebsforschung GmbH</a></p> 	<p>Scientists and students at the CCRI are embedded in an enthusiastic research environment, provided with access to excellent core facilities and expert advisors in pediatric oncology research and related topics. Their goals include:</p> <ul style="list-style-type: none"> <li>Ensuring the hiring of excellent PhD students and Postdocs through a standardized recruitment process</li> <li>Professional support for PhD students and Postdocs during their time at CCRI including regular career talks as well as training &amp; development</li> <li>Preparation of excellent PhD thesis and publications at CCRI. Promote opportunities for translational research.</li> </ul> <p><a href="https://www.ccri.at/phdpostdocs/">https://www.ccri.at/phdpostdocs/</a></p>
<p><a href="#">AIT Austrian Institute of Technology GmbH</a></p> 	<p>The AIT is a non-university research institution. Master's studies and doctorates can therefore only be carried out in cooperation with a national or international university. The AIT provides access to research infrastructure and supervision for ongoing research projects, while academic supervision is provided by the students' universities. We particularly encourage international candidates to apply. For more details on how we support international applicants, please visit the AIT</p> <p><a href="https://www.ait.ac.at/karriere/phd-programm">https://www.ait.ac.at/karriere/phd-programm</a></p>
<p><a href="#">IMBA – Institute of Molecular Biotechnology</a></p> 	<p>Education is a core mission of IMBA. Scientific research - the creation of knowledge - is only meaningful if it is transferred to others. Here, together with our partner institutes at the Vienna BioCenter, we empower young scientists to break boundaries and make discoveries, while instilling them with our own knowledge and expertise.</p> <p><a href="https://www.oeaw.ac.at/imba/career-education/opportunities">https://www.oeaw.ac.at/imba/career-education/opportunities</a></p>
<p><a href="#">Ludwig Boltzmann Gesellschaft</a></p>  <p>Ludwig Boltzmann Gesellschaft</p>	<p>The task of the LBG Career Center is to provide confidential advice and support to (young) researchers in the selection and implementation of individual offers as well as the conception and organization of institutional offers. In addition, the CC regularly carries out quality</p>

assurance measures and networks with relevant communities from science and industry.

<https://www.lbg.ac.at/lbg-career-center/>

[Max Perutz Labs](#)



The Max Perutz Labs are dedicated to inspiring and enabling the next generation of scientists. Postdocs benefit from a supportive environment, coaching, and tailored workshops aimed at their career development. More than 50 research labs, excellent research facilities, and the vibrant international atmosphere at the Vienna BioCenter ensure that young researchers find all they need at this important career stage.

<https://www.maxperutzlabs.ac.at/education/postdoc>

**EURAXESS in general**

EURAXESS is a European platform that brings together and offers vacancies in research, development and teaching within Europe or between Europe and outside. The network, organized by the European Union, is aimed at both career starters and experienced scientists. The following is a list of open positions in Vienna and the surrounding area that could be accessed at the universities already covered. The EURAXESS portal was searched in the field of Life Sciences, the period covers October to December 2021. The list does not claim to be complete as vacancies are often only advertised at short notice. The Center for Doctoral Studies at the University of Vienna supervises doctoral students visiting Vienna for their research work.

**Table 19.** Open positions EURAXESS – Vienna and Surroundings (November 2021) in Life Sciences

Institution	Position	Description	No. of open positions
Austrian Academy of Sciences, The Austrian Archaeological Institute (OeAI)	<a href="#">POSTDOC POSITION (F/M)</a>	History › Archaeology	3
Austrian Academy of Sciences, Research Center for Molecular Medicine (CeMM), OAW	<a href="#">NGS Bioinformatician for Biomedical Sequencing Facility (m/f/d)</a>	Biological sciences	1
Austrian Academy of Sciences, Research Center for Molecular Medicine (CeMM), OAW	<a href="#">NGS Technician Biomedical Sequencing Facility (m/f/d)</a>	Biological sciences	1
Austrian Academy of Sciences, Research Center for Molecular Medicine (CeMM), OAW	<a href="#">Technical Assistant in Chromatin Biology</a>	Biological sciences	1
Austrian Academy of Sciences, Research Center for Molecular Medicine (CeMM), ÖAW	<a href="#">NGS Technician Biomedical Sequencing Facility (m/f/d)</a>	Biological sciences	1
Austrian Academy of Sciences, The Acoustics Research Institute (ARI)	<a href="#">JUNIOR GROUP-LEADER POSITION (F*M) (# of pos: 4)</a>	Mathematics › Algebra	1
Austrian Academy of Sciences, The Austrian Archaeological Institute (OeAI)	<a href="#">ACADEMY SCIENTIST POSITION (F*M)</a>	History › Archaeology	1
Austrian Academy of Sciences, The Institute for	<a href="#">Junior Group Leader (f/m)</a>	Physics	1

Quantum Optics and Quantum Information Vienna (IQOQI-Vienna)			
Austrian Academy of Sciences, The Institute of High Energy Physics (HEPHY)	<a href="#">POSTDOC POSITION (F/M) BELLE II</a>	Physics > Mathematical physics	1
Austrian Academy of Sciences, The Space Research Institute (IWF)	<a href="#">PHD STUDENT POSITION (F/M)</a>	Astronomy > Astrophysics Physics	1
Austrian Academy of Sciences, The Space Research Institute (IWF)	<a href="#">POSTDOC POSITION (F/M)</a>	Physics Astronomy > Astrophysics	1
Austrian Academy of Sciences, The Space Research Institute (IWF)	<a href="#">POSTDOC POSITION (F/M)</a>	Astronomy > Astrophysics	1
Austrian Academy of Sciences, The Space Research Institute (IWF)	<a href="#">ACADEMY SCIENTIST (F/M)</a>	Physics Astronomy > Astrophysics	1
Austrian Institute of Technology GmbH, AIT	<a href="#">Master Thesis „Digitalisierung von HKL-Schemata“</a>	Computer science > Database management	1
Austrian Institute of Technology GmbH, AIT	<a href="#">Technician (m/w/d) KFZ- und Messtechnik Road Condition Monitoring</a>	Engineering > Mechanical engineering	1
Austrian Institute of Technology GmbH, AIT	<a href="#">PhD Thesis “Enhanced flexibility and robustness of autonomous systems through human - machine...”</a>	Computer science > Autonomic computing	1
CEST	<a href="#">Junior Researcher (m/f/x) – PhD thesis (# of pos: 2)</a>	Physics > Surface physics	1
Children's Cancer Research Institute	<a href="#">Postdoc (m/f/d) - Mechanisms of drug resistance in pediatric tumors (# of pos: 9)</a>		1
Children's Cancer Research Institute	<a href="#">PhD Student (m/f/d) in the field of Cancer Epigenetics</a>	Biological sciences	1
Institute of Advanced Research in Artificial Intelligence	<a href="#">Remote Sensing – Internship Opportunities at IARAI</a>	Computer science	1
IST Austria	<a href="#">Cleanroom Technologist/ Process Engineer (FIB Expert)</a>	Other	1
IST Austria	<a href="#">Head of Science Education and Science Experience Center (VISTA)</a>	Other	1
IST Austria	<a href="#">Project Technician Research Group Kicheva</a>	Biological sciences	1
IST Austria	<a href="#">Fully-Funded PhD Positions in Biology, Computer Science, Data Science...</a>	Biological sciences	
IST Austria	<a href="#">Biochemist Protein Service</a>	Chemistry > Biochemistry	1
IST Austria	<a href="#">Fully-funded PhD positions in Biology, Neuroscience, Mathematics, Computer Science, Physics.... (# of pos: 60)</a>	Biological sciences	1
IST Austria, Institute of Science and Technology Austria	<a href="#">Biochemist Protein Service</a>	Biological sciences	1
IST Austria, Institute of Science and Technology Austria	<a href="#">Fully-Funded Ph.D. Positions in Biology, Computer Science, Data Science...</a>	Multiple Research Fields	1

Ludwig Boltzmann Gesellschaft	<a href="#">TECHNICAL ASSISTANT (#TA 2021)</a>	Medical sciences > Other	1
Ludwig Boltzmann Institute	<a href="#">Postdoctoral Fellow in Radiopharmaceutical Sciences</a>	Chemistry	1
Max Perutz Labs	<a href="#">Tenure-Track Professorship in Structural Biology</a>	Biological sciences	1
Max Perutz Labs	<a href="#">Tenure-Track Professorship in Mechanistic Cell Biology</a>	Biological sciences	1
Medical University of Vienna	<a href="#">PhD student position in Cancer Research (f/m/d)</a>	Medical sciences > Medicine	1
Medical University of Vienna	<a href="#">PhD student position in Spatial Proteomics (f/m/d)</a>	Biological sciences > Other	1
Medical University of Vienna	<a href="#">Position as Medical Specialist for Internal Medicine at the Medical University of Vienna</a>	Medical sciences	1
Medical University of Vienna	<a href="#">Position as Specialist in hygiene and medical microbiology at the Medical University of Vienna</a>	Medical sciences	1
Medical University of Vienna	<a href="#">Position as Ward Physician at the Medical University of Vienna</a>	Medical sciences	1
Medical University of Vienna	<a href="#">Principal Investigator</a>	Biological sciences > Biological engineering	1
Medical University of Vienna	<a href="#">Assistant Professor in Developmental Neurobiology</a>	Medical sciences Neurosciences	1
Medical University of Vienna	<a href="#">Position as Assistant Professor in Developmental Neurobiology at the Medical University of Vienna</a>	Medical sciences > Medicine	1
Medical University of Vienna	<a href="#">Professorship Position for Gynecology at the Medical University of Vienna</a>	Medical sciences > Medicine	1
Medical University of Vienna	<a href="#">Postdoc in T cell biology / developmental biology</a>	Biological sciences > Other	1
Medical University of Vienna, Research Institute of Molecular Pathology (IMP)	<a href="#">Post-Doc in Circuit Neuroscience and Behaviour Center for Brain Research</a>	Computer science	1
Medical University of Vienna, Research Institute of Molecular Pathology (IMP)	<a href="#">Ref2113: PhD student or PostDoc for MS-Crosslinking</a>	Chemistry > Biochemistry	1
University of Natural Resources and Life Sciences Vienna	<a href="#">Postgraduate Research Assistant (project employment) / Reference Code 240</a>	Biological sciences > Biodiversity	1
University of Natural Resources and Life Sciences Vienna	<a href="#">Postgraduate Research Associate (temporary replacement) / Reference Code 234 (# of pos: 2)</a>	Engineering > Civil engineering	2
University of Natural Resources and Life Sciences Vienna	<a href="#">Postgraduate Research Associate or student employee (project employment) / Reference Code 230</a>	Computer science > Other	1
University of Natural Resources and Life Sciences Vienna	<a href="#">Postdoctoral Research Associate / Reference Code 229</a>	Engineering > Other	1
University of Veterinary Medicine	<a href="#">Postdoctoral Researcher - Biomolecular Condensation of Oncogenic Fusion Proteins</a>	Biological sciences > Other	1
University of Veterinary Medicine / Institute of Physiology, Pathophysiology and Biophysics	<a href="#">PhD Student in Biophysics/Electrophysiology</a>	Physics > Biophysics	1
University of Veterinary Medicine Vienna	<a href="#">PostDoc with option for a tenure-track position in accordance with Section 27 of the collective...</a>	Medical sciences > Veterinary medicine	1

University of Veterinary Medicine Vienna	<a href="#">Scientific Assistant - Ophthalmology</a>	Medical sciences > Veterinary medicine	1
University of Veterinary Medicine Vienna	<a href="#">Research Associate in Animal Nutrition</a>	Medical sciences > Veterinary medicine	1
University of Veterinary Medicine Vienna	<a href="#">Scientific Assistant - Ophthalmology</a>	Medical sciences > Veterinary medicine	1
University of Veterinary Medicine Vienna	<a href="#">Research Associate in Animal Nutrition</a>	Medical sciences > Veterinary medicine	1
University of Veterinary Medicine Vienna	<a href="#">University Assistant PostDoc</a>	Medical sciences > Veterinary medicine	1
University of Veterinary Medicine Vienna - popgen	<a href="#">PhD positions in Population Genetics (# of pos: 5)</a>	Biological sciences > Biology	1
University of Vienna	<a href="#">Visiting Professor of Nursing Science</a>	Nursing Science	1
University of Vienna	<a href="#">Professorships &amp; Tenure-Track Professorships</a>	Computer science	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Mathematical Biology</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Mechanistic Cell Biology</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Algorithms</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Geobiology</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Toxicology</a>	Other	1
University of Vienna	<a href="#">University Professor of Health Psychology</a>	Other	1
University of Vienna	<a href="#">University Professor of Digital Media Theory/Digital Media Aesthetics</a>		1
University of Vienna	<a href="#">University Professor of Communication Technologies</a>	Other	1
University of Vienna	<a href="#">Post Doc Pharmacoinformatics Research Group</a>	Pharmacological sciences > Toxicology	1
University of Vienna	<a href="#">TECHNICIAN – CHEMICAL BIOLOGY – UNIVERSITY OF VIENNA</a>	Biological sciences > Biodiversity	1
University of Vienna	<a href="#">POSTDOC – CHEMICAL BIOLOGY – BIOTECHNOLOGY – UNIVERSITY OF VIENNA</a>	Biological sciences > Biodiversity	1
University of Vienna	<a href="#">University Assistant (prae doc) at the Department of Meteorology and Geophysics</a>	Physics > Metrology	2
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Isotope and Environmental Physics employing Accelerator...</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Structural Biology</a>	Other	1
University of Vienna	<a href="#">Tenure-Track Professorship for the field of Mathematical Methods for Data Science</a>	Other	1
University of Vienna	<a href="#">University Professor of Computer Science (Process-Oriented Information Systems)</a>	Other	1
University of Vienna, Centre for Molecular Biology	<a href="#">University Assistant (post doc)</a>	Biological sciences > Biological engineering	1

University of Vienna, Centre for Molecular Biology	<a href="#">University Assistant (prae doc)</a>	Biological sciences > Biological engineering	1
University of Vienna, Centre for Sport Science and University Sports	<a href="#">University Assistant (post doc)</a>	Medical sciences > Other	1
University of Vienna, Centre for Sport Science and University Sports	<a href="#">University Assistant (post doc)</a>	Biological sciences > Biological	1
University of Vienna, Centre for Sport Science and University Sports	<a href="#">Senior Lecturer</a>	Medical sciences > Other	1
University of Vienna, Faculty of Computer Science	<a href="#">Scientific Staff (prae doc)</a>	Computer science > Other	1
University of Vienna, Faculty of Computer Science	<a href="#">University Assistant (prae doc)</a>	Computer science > Other	1
University of Vienna, Faculty of Computer Science	<a href="#">University Assistant (prae doc)</a>	Computer science > Autonomic computing	1
University of Vienna, Faculty of Computer Science	<a href="#">University Assistant (prae doc)</a>	Computer science > Programming	1
University of Vienna, Faculty of Computer Science	<a href="#">University Assistant (prae doc)</a>	Computer science > Other	2
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">University Assistant (prae doc)</a>	Geosciences > Other	1
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">Senior Scientist</a>	Geosciences > Other	2
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">University Assistant (prae doc)</a>	Geosciences > Other	1
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">University Assistant (prae doc)</a>	Biological sciences > Biology	1
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">University Assistant (post doc)</a>	Physics > Computational physics	1
University of Vienna, Faculty of Earth Sciences, Geography and Astronomy	<a href="#">University Assistant (prae doc)</a>	Geosciences > Geology	1
University of Vienna, Faculty of Life Sciences	<a href="#">Senior Scientist</a>	Biological sciences > Other	1
University of Vienna, Faculty of Life Sciences	<a href="#">University Assistant (prae doc)</a>	Biological sciences > Biological engineering	1
University of Vienna, Faculty of Life Sciences	<a href="#">Senior Scientist</a>	Pharmacological sciences > Other	1
University of Vienna, Faculty of Mathematics	<a href="#">University Assistant (post doc)</a>	Mathematics > Statistics	1
University of Vienna, Faculty of Mathematics	<a href="#">University Assistant (post doc)</a>	Mathematics > Statistics	1
University of Vienna, Faculty of Mathematics	<a href="#">University Assistant (post doc)</a>	Mathematics > Number theory	1
University of Vienna, Faculty of Physics	<a href="#">University Assistant (post doc)</a>	Physics > Chemical physics	1
University of Vienna, Faculty of Physics	<a href="#">University Assistant (post doc)</a>	Physics > Computational physics	1
University of Vienna, Rectorate	<a href="#">Leading Researcher (R4) professor</a>	Medical sciences > Other	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Chemistry > Applied chemistry	1

University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Geosciences > Geology	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Computer science > Informatics	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Physics > Applied physics	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Mathematics > Applied mathematics	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Computer science > Autonomic computing	1
University of Vienna, Rectorate	<a href="#">Tenure Track</a>	Biological sciences > Biological engineering	2
University of Vienna, Research Platform Plastics in the Environment and Society	<a href="#">University Assistant (prae doc)</a>	Chemistry > Analytical chemistry	1
University of Vienna, The Comammox Research Platform	<a href="#">University Assistant (post doc)</a>	Biological sciences > Biological engineering	1
Vienna Graduate School of Population Genetics	<a href="#">PhD positions in Population Genetics</a>	Biological sciences	
Vienna University of Technology	<a href="#">University Professor for the specialist field of Building Science &amp; Human Ecology</a>	Architecture > Other	1
Vienna University of Technology	<a href="#">University Assistant (Pre-Doc)</a>	Chemistry > Other	1
Vienna University of Technology	<a href="#">Project Manager for Research Projects</a>		
Vienna University of Technology	<a href="#">University Assistants (m/f) (Pre-Doc) (# of pos: 20)</a>	Biological sciences	1
Vienna University of Technology	<a href="#">University Assistants (m/f) (Prae-Doc)</a>	Computer science	1
Vienna University of Technology	<a href="#">Ph.D. student in surface science</a>	Physics > Surface physics	1
Vienna University of Technology	<a href="#">PhD Position in Nano-confined Liquid Transport</a>	Chemistry > Computational chemistry	1
Vienna University of Technology	<a href="#">University Assistants (m/f) (Pre-Doc)</a>	Multiple Research Fields	1
Vienna University of Technology, Research Studios Austria, Data Science Studio	<a href="#">PhD Student in Information Retrieval and Knowledge Representation</a>	Computer science > Informatics	1

**Source:** EURAXESS, <https://euraxess.ec.europa.eu/jobs/search>, page accessed 30 November 2021.

## List of Life Sciences companies operating in Vienna region

### A

[ab&cd innovations](#)

[AbbVie GmbH](#)

[Accanis Biotech F&E GmbH & Co KG](#)

[Actelion Pharmaceuticals Austria GmbH](#)

[Acticell GmbH](#)

[Affiris AG](#)

[Akribes Biomedical GmbH](#)

[AlgOss Biotechnologies GmbH](#)

[Allcyte GmbH](#)

[Alvetra u. Werfft GmbH](#)

[Amgen GmbH](#)

[AOP Orphan Pharmaceuticals AG](#)

[Apeiron Biologics AG](#)

[APEPTICO Forschung und Entwicklung GmbH](#)

[Aposcience AG](#)

[Ares Genetics](#)

[Arsanis Biosciences GmbH](#)

[Astellas Pharma GmbH](#)

[AstraZeneca GmbH](#)

[Attoquant Diagnostics GmbH](#)

[Austrianni GmbH](#)

### B

[Bayer Austria GmbH](#)

[Bender MedSystems](#)

Bey Pharma GmbH

[Biogen Austria GmbH](#)

[Biomay AG](#)

[Biomedical International R+D GmbH](#)

Biomedizinische Forschungsgesellschaft m.b.H.

[GlaxoSmithKline Pharma GmbH](#)

[Bioplant R & D](#)

Bio-Products & Bio-Engineering AG

[BIRD-C Biotech Innovation Research  
Development und Consulting GmbH & Co KG](#)

[Blue Sky Vaccines GmbH](#)

[Boehringer Ingelheim RCV GmbH & Co KG](#)

[BS Immun GmbH](#)

### C

[Celgene GmbH](#)

### D

[Daiichi Sankyo Austria GmbH](#)

[Dipha GmbH](#)

[Dr. Muin Pharma GmbH](#)

### E

[Eisai GmbH](#)

Eli Lilly GmbH

Emergentec biodevelopment GmbH

[engenes biotech GmbH](#)

[Epsilon 3 GmbH](#)

[Eucodis Bioscience GmbH](#)

[Eurofins Genomics AT GmbH](#)

[Eveliqure Biotechnologies GmbH](#)

[Evercyte GmbH](#)

[Evologic Technologies](#)

### F

[F Star GmbH](#)

[F2G](#)

[F4 Pharma GmbH](#)

### G

[Germania Pharmazeutika GmbH](#)

[Gilead Sciences GmbH](#)

[NBS-C BioScience Consulting GmbH](#)

**H**

[Haplogen Bioscience GmbH](#)

[Hermes Pharma GmbH](#)

[HG Pharma GmbH](#)

[Hookipa Pharma Inc.](#)

**I**

[Ingenetix GmbH](#)

[Interpharm GmbH](#)

[Intervet GmbH](#)

**J**

[Janssen-Cilag Pharma GmbH](#)

[JLP Health GmbH](#)

**K**

[Kwizda Agro GmbH](#)

[Kwizda Pharma GmbH](#)

**L**

[Labdia GmbH](#)

[Lenus Pharma GmbH](#)

[Lexogen GmbH](#)

[Lundbeck GmbH](#)

**M**

[Marinomed Biotech GmbH](#)

[Mark 53 GmbH](#)

[Merck GmbH](#)

[Merck Sharp & Dohme GmbH](#)

[Microsynth Austria GmbH](#)

[Miti Biosystems GmbH](#)

[MVT Biotechnology GmbH](#)

[Myelopro GmbH](#)

**N**

[Nabriva Therapeutics GmbH](#)

[Syconium Lactic Acid GmbH](#)

[Novartis Pharma GmbH](#)

[Novo Nordisk Pharma GmbH](#)

[Nuvonis Technologies GmbH](#)

**O**

[Octapharma GmbH](#)

[Oncolab Diagnostics GmbH](#)

[Origimm Biotechnology GmbH](#)

[Orphanidis GmbH](#)

**P**

[P 4 Therapeutics GmbH](#)

[Panoptes Pharma GmbH](#)

[Pfizer Corporation Austria GmbH](#)

[Phagomed BioPharma GmbH](#)

[Pivaris Bioscience GmbH](#)

[Planta Naturstoffe GmbH](#)

[Platomics GmbH](#)

[ProFem GmbH](#)

**R**

[Ratiopharm VertriebsGmbH](#)

[Reckitt Benckiser Austria GmbH](#)

[Ribbon Biolabs GmbH](#)

[Richard Bittner AG](#)

[Roche Austria GmbH](#)

**S**

[Saico Biosystems KG](#)

[Sanochemia Pharmazeutika AG](#)

[Sanofi-Aventis GmbH](#)

[Savira Pharmaceuticals GmbH](#)

[Servier Austria GmbH](#)

[Sigmapharm GmbH](#)

[S-Target Therapeutics GmbH](#)

## **T**

[Takeda Austria GmbH](#)

[Tamirna GmbH](#)

[Technoclone](#)

[The Antibody Lab GmbH](#)

[Themis Bioscience GmbH](#)

THT Biomaterials GmbH

[Tube Pharmaceuticals GmbH](#)

## **U**

[UCB Pharma GmbH](#)

[use PAT GmbH](#)

## **V**

[Vacthera BioTech GmbH](#)

[Valneva Austria GmbH](#)

[Vela Labs GmbH](#)

[VidiPharm GmbH](#)

[Vienna Lab Diagnostics GmbH](#)

[Viravaxx AG](#)

[Virusure GmbH](#)

[Vita 34 GmbH](#)

[Vivaldi Biosciences AG](#)

## **Y**

[Yasara Biosciences GmbH](#)

## **Z**

[Zytoprotec GmbH](#)

