

## Research Internships at the TUM School of Life Sciences:

The TUM School of Life Sciences offers a large number of highly attractive research internships, research projects and practical courses. In the internships you work hands on in small groups or with an individual supervisor (typically a Ph.D. student or post-doc) on an independent lab project. These projects are typically part of the ongoing research of the host laboratory. You will learn about the general topic of research as well as the state-of-the-art techniques used

to answer these research questions. Research internships usually comprise 10 ECTS (equal to an overall workload of 300 hours or 6 weeks) and can be taken either in the winter or summer term. The internships are typically concluded by an oral presentation or a written report (or both) about your project.

During the internship it is usually tolerated that the students attend lectures or seminars in parallel, as long as these modules are also located on the Weihenstephan campus. If you want to avoid this double work load you might also be able to schedule the internship after the regular lecture period, when you are done with your module exams. In this case you might consider extending your stay at TUM for several weeks.

A research internship has to fit to the candidate's interests and experience as well as the host lab's projects. Thus, you have to apply directly to the professor in charge and negotiate the terms of your internship. Don't be disappointed if you are not successful with your first application, sometimes there are just no fitting projects at the time of your application.

If you want to apply for a research internship, you should look at the professors' homepage or even read his latest research papers before you contact them. The more you know about their work and why you are particularly interested in the lab, the better your chance of acceptance. Please also mention if you are at the TUM School of Life Sciences as an ERASMUS exchange student.

We have gathered a list of available courses that you can find on the following pages. In all research labs on campus the „lab-language“ is usually English, thus all internship modules can be considered as English spoken modules even if it is not mentioned as such in TUMonline. Please contact the person in charge of the module (indicated in the list) for more information. Enrollment in each of these internships is only possible after individual agreement with the person in charge.

If you need information about the application process for research stays at TUM please visit the Website of our Global and Alumni Office:

<https://www.international.tum.de/en/global/comingtotum/research-stays-for-students/>

<b>Topic</b>	<b>Number</b>	<b>Professor</b>	<b>Contact Email</b>	<b>Term</b>	<b>ECTS</b>
Computing for Hightthroughput Biology	<a href="#">WZ2400</a>	Bauer	<a href="mailto:e.bauer@tum.de">e.bauer@tum.de</a>	WS/SS	10
Molecular Fungal Genetics	<a href="#">WZ1817</a>	Benz	<a href="mailto:benz@hfm.tum.de">benz@hfm.tum.de</a>	WS/SS	10
Horticultural economics and management	<a href="#">WZ1718</a>	Bitch	<a href="mailto:bitsch@tum.de">bitsch@tum.de</a>	WS/SS	10
Novel Therapeutic Strategies to Treat Aging-Related Diseases	<a href="#">WZ0267</a>	different labs	N.A.	WS/SS	10
Pharmacology and Toxicology	<a href="#">WZ2414</a>	Engelhardt	<a href="mailto:Stefan.Engelhardt@tum.de">Stefan.Engelhardt@tum.de</a>	WS/SS	10
Methods in Fish Biology and Aquatic Ecology	<a href="#">WZ2390</a>	Geist	<a href="mailto:geist@tum.de">geist@tum.de</a>	WS/SS	10
Methods in Fish Biology and Aquatic Ecology - Organismic	<a href="#">WZ2406</a>	Geist	<a href="mailto:geist@tum.de">geist@tum.de</a>	WS/SS	10
Mapping Neural Circuits Underpinning Behavior	<a href="#">WZ2687</a>	Grunwald-Kadow	<a href="mailto:grunwald@wzw.tum.de">grunwald@wzw.tum.de</a>	WS/SS	10
Molecular Genetics of Plant-Microbe Symbiosis 2	<a href="#">WZ2762</a>	Gutjahr	<a href="mailto:caroline.gutjahr@tum.de">caroline.gutjahr@tum.de</a>	WS/SS	10
Nutrition and Immunology	<a href="#">WZ2399</a>	Haller	<a href="mailto:dirk.haller@tum.de">dirk.haller@tum.de</a>	WS/SS	10
Phytopathology	<a href="#">WZ2273</a>	Hückelhöven	<a href="mailto:hueckelhoven@tum.de">hueckelhoven@tum.de</a>	WS/SS	10
Plant Immunology	<a href="#">WZ0632</a>	Hückelhöven	<a href="mailto:hueckelhoven@tum.de">hueckelhoven@tum.de</a>	WS/SS	10
Research Practical (agricultural projekt)	<a href="#">WZ0031</a>	Hückelhöven	<a href="mailto:hueckelhoven@tum.de">hueckelhoven@tum.de</a>	WS/SS	10
Plant Pathology	<a href="#">WZ1586</a>	Hückelhöven	<a href="mailto:hueckelhoven@tum.de">hueckelhoven@tum.de</a>	WS/SS	10
Phytopathology	<a href="#">WZ1540</a>	Hückelhöven	<a href="mailto:hueckelhoven@tum.de">hueckelhoven@tum.de</a>	WS/SS	5
Data Processing and Visualization in R	<a href="#">WZ0631</a>	Johannes	<a href="mailto:f.johannes@tum.de">f.johannes@tum.de</a>	SS	5
Peptidchemistry and -biochemistry	<a href="#">WZ2252</a>	Kapurniotu	<a href="mailto:akapurniotu@wzw.tum.de">akapurniotu@wzw.tum.de</a>	WS/SS	10
Research Internship	<a href="#">WZ3211</a>	Klingenspor	<a href="mailto:mk@tum.de">mk@tum.de</a>	WS/SS	10
Restoration Ecology	<a href="#">WZ6303</a>	Kollmann	<a href="mailto:jkollmann@wzw.tum.de">jkollmann@wzw.tum.de</a>	WS/SS	10
Molecular Oncology	<a href="#">WZ2436</a>	Krüger	<a href="mailto:achim.krueger@lrz.tu-muenchen.de">achim.krueger@lrz.tu-muenchen.de</a>	WS/SS	10
Molecular Biotechnology	<a href="#">WZ3000</a>	Kulozik	<a href="mailto:Ulrich.kulozik@tum.de">Ulrich.kulozik@tum.de</a>	WS/SS	10
Biopolymer Chemistry	<a href="#">WZ2441</a>	Langosch	<a href="mailto:langosch@tum.de">langosch@tum.de</a>	WS/SS	10
Biochemistry of Membrane Proteins	<a href="#">WZ2234</a>	Langosch	<a href="mailto:langosch@tum.de">langosch@tum.de</a>	WS/SS	10
Neurobiology of behavior	<a href="#">WZ2639</a>	Luksch	<a href="mailto:Harald.Luksch@wzw.tum.de">Harald.Luksch@wzw.tum.de</a>	WS/SS	10
Neurobiology of Birds	<a href="#">WZ2463</a>	Luksch	<a href="mailto:Harald.Luksch@wzw.tum.de">Harald.Luksch@wzw.tum.de</a>	WS/SS	10
Neurobiology of Vertebrates	<a href="#">WZ2653</a>	Luksch	<a href="mailto:Harald.Luksch@wzw.tum.de">Harald.Luksch@wzw.tum.de</a>	WS/SS	10
Climate Monitoring	<a href="#">WZ1233</a>	Menzel	<a href="mailto:amenzel@ww.tum.de">amenzel@ww.tum.de</a>	WS/SS	5
Ecoclimatology	<a href="#">WZ6329</a>	Menzel	<a href="mailto:amenzel@ww.tum.de">amenzel@ww.tum.de</a>	WS/SS	5
Metabolite Analyses in Crops	<a href="#">WZ1697</a>	Poppenberger	<a href="mailto:Wilfried.rozhon@wzw.tum.de">Wilfried.rozhon@wzw.tum.de</a>	WS/SS	10

Biotechnology of Horticultural Crops	<a href="#">WZ1577</a>	Poppenberger	<a href="mailto:Wilfried.rozhon@wzw.tum.de">Wilfried.rozhon@wzw.tum.de</a>	WS/SS	10
Chemical Genetics	<a href="#">WZ1575</a>	Poppenberger	<a href="mailto:tobias.sieberer@wzw.tum.de">tobias.sieberer@wzw.tum.de</a>	WS/SS	10
Plant Growth Regulation	<a href="#">WZ1576</a>	Poppenberger	<a href="mailto:tobias.sieberer@wzw.tum.de">tobias.sieberer@wzw.tum.de</a>	WS/SS	10
Molecular Ecology and Evolutionary Biology of Plants for Advanced Level	<a href="#">WZ2684</a>	Schäfer	<a href="mailto:hanno.schaefer@tum.de">hanno.schaefer@tum.de</a>	WS/SS	10
Phylogenetics of Plants for Advanced Level	<a href="#">WZ2683</a>	Schäfer	<a href="mailto:hanno.schaefer@tum.de">hanno.schaefer@tum.de</a>	WS/SS	10
Molecular Ecology and Evolutionary Biology of Plants	<a href="#">WZ2631</a>	Schäfer	<a href="mailto:hanno.schaefer@tum.de">hanno.schaefer@tum.de</a>	WS/SS	10
Neurophysiology	<a href="#">WZ2478</a>	Schemann	<a href="mailto:schemann@wzw.tum.de">schemann@wzw.tum.de</a>	WS/SS	10
Molecular Biology of Intestinal Microbiota	<a href="#">WZ3926</a>	Scherer	<a href="mailto:neuhaus@tum.de">neuhaus@tum.de</a>	WS/SS	10
Food Hygiene	<a href="#">WZ2377</a>	Scherer	<a href="mailto:Siegfried.Scherer@wzw.tum.de">Siegfried.Scherer@wzw.tum.de</a>	WS/SS	10
Molecular Microbial Biodiversity and Taxonomy	<a href="#">WZ2378</a>	Scherer	<a href="mailto:Siegfried.Scherer@wzw.tum.de">Siegfried.Scherer@wzw.tum.de</a>	WS/SS	10
Plant Nutrition	<a href="#">WZ1549</a>	Schmidhalter	<a href="mailto:urs.schmidhalter@mytum.de">urs.schmidhalter@mytum.de</a>	WS/SS	10
Developmental Genetics of Plants 2	<a href="#">WZ2481</a>	Schneitz	<a href="mailto:kay.schneitz@tum.de">kay.schneitz@tum.de</a>	WS/SS	10
Genetics 2 - Developmental Genetics	<a href="#">WZ2417</a>	Schneitz	<a href="mailto:Ramon.Torres@wzw.tum.de">Ramon.Torres@wzw.tum.de</a>	WS/SS	10
Plant Developmental Genetics 1	<a href="#">WZ2517</a>	Schneitz	<a href="mailto:kay.schneitz@tum.de">kay.schneitz@tum.de</a>	WS/SS	10
Animal Biotechnology	<a href="#">WZ2545</a>	Schnieke	<a href="mailto:a.schnieke@tum.de">a.schnieke@tum.de</a>	WS/SS	10
Biochemical Genetics	<a href="#">WZ2327</a>	Schön	<a href="mailto:chris.schoen@tum.de">chris.schoen@tum.de</a>	WS/SS	10
Molecular Plant Breeding	<a href="#">WZ2401</a>	Schön	<a href="mailto:chris.schoen@tum.de">chris.schoen@tum.de</a>	WS/SS	10
Reproductive Biotechnology	<a href="#">WZ0003</a>	Schusser	<a href="mailto:benjamin.schusser@tum.de">benjamin.schusser@tum.de</a>	WS/SS	10
Physiological Pomology	<a href="#">WZ1592</a>	Schwab	<a href="mailto:dieter.treutter@mytum.de">dieter.treutter@mytum.de</a>	WS/SS	10
Secondary Plant Metabolites	<a href="#">WZ2594</a>	Schwab	<a href="mailto:dieter.treutter@mytum.de">dieter.treutter@mytum.de</a>	WS/SS	10
Woody Plant Pathology	<a href="#">WZ1662</a>	Schwab	<a href="mailto:johannes.hadersdorfer@mytum.de">johannes.hadersdorfer@mytum.de</a>	WS/SS	10
Introduction to Plant Systems Biology	<a href="#">WZ2379</a>	Schwechheimer	<a href="mailto:claus.schwechheimer@wzw.tum.de">claus.schwechheimer@wzw.tum.de</a>	WS/SS	10
Plant Systems Biology	<a href="#">WZ2380</a>	Schwechheimer	<a href="mailto:claus.schwechheimer@wzw.tum.de">claus.schwechheimer@wzw.tum.de</a>	WS/SS	10
<i>in silico</i> Evolutionary Genetics of Plants and Pathogens	<a href="#">WZ2619</a>	Tellier	<a href="mailto:tellier@wzw.tum.de">tellier@wzw.tum.de</a>	WS/SS	10
Introduction to Evolutionary Genetics	<a href="#">WZ2758</a>	Tellier	<a href="mailto:tellier@wzw.tum.de">tellier@wzw.tum.de</a>	WS/SS	5
Food Biotechnology	<a href="#">WZ2082</a>	Vogel	<a href="mailto:rudi.vogel@wzw.tum.de">rudi.vogel@wzw.tum.de</a>	WS/SS	10

In addition we offer a number of internships that are not located on the Weihenstephan Campus but are open to all students enrolled in our programmes. These courses will require travel to Munich or the affiliated Helmholtz Center in Munich-Neuherberg. Commute might take between one and one and a half hours (one way) depending on your location and connection.

<b>Topic</b>	<b>Number</b>	<b>Professor</b>	<b>Contact Email</b>	<b>Term</b>	<b>ECTS</b>	<b>Location</b>
Hormone Signaling, Biochemical Pathways and Metabolomics	<a href="#">WZ2564</a>	Adamski	<a href="mailto:adamski@helmholtz-muenchen.de">adamski@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Radiation Biology	<a href="#">WZme2672</a>	Atkinson	<a href="mailto:atkinson@helmholtz-muenchen.de">atkinson@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Experimental Genetics of Mammals	<a href="#">WZ2525</a>	Hrabe de Angelis	<a href="mailto:hrabe@helmholtz-muenchen.de">hrabe@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Molecular Soil Microbiology	<a href="#">WZ2558</a>	Kögel-Knabner	<a href="mailto:schloter@helmholtz-muenchen.de">schloter@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Neurogenetics for Advanced	<a href="#">WZ2665</a>	Wurst	<a href="mailto:wurst@helmholtz-muenchen.de">wurst@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Neurogenetics	<a href="#">WZ0463</a>	Wurst	<a href="mailto:wurst@helmholtz-muenchen.de">wurst@helmholtz-muenchen.de</a>	WS/SS	10	Helmholtz
Immunology	<a href="#">WZ2412</a>	Busch	<a href="mailto:dirk.busch@mikrobio.med.tum.de">dirk.busch@mikrobio.med.tum.de</a>	WS/SS	10	Munich
Molecular Cell Biology of Tumorigenesis	<a href="#">WZ2428</a>	Janssen	<a href="mailto:klaus-peter.janssen@lrz.tum.de">klaus-peter.janssen@lrz.tum.de</a>	WS/SS	10	Munich
Molecular Pathology and organ-specific Carcinogenesis	<a href="#">WZ2454</a>	Luber	<a href="mailto:luber@lrz.tum.de">luber@lrz.tum.de</a>	WS/SS	10	Munich
Molecular Pathology of Vessels	<a href="#">WZ2756</a>	Mägdefessel	<a href="mailto:lars.maegdefessel@tum.de">lars.maegdefessel@tum.de</a>	WS/SS	10	Munich
Challenges of Biomedicine. Social, Political and Ethical Aspects of Medical Biology.	<a href="#">WZ2681</a>	Müller	<a href="mailto:ruth.mueller@tum.de">ruth.mueller@tum.de</a>	WS/SS	5	Munich
Molecular Virology	<a href="#">WZ2477</a>	Protzer	<a href="mailto:protzer@tum.de">protzer@tum.de</a>	WS/SS	10	Munich