

Entry Requirements

- Qualified Bachelor of Science in Chemistry, Physics or Engineering
- Proof of sufficient command of English, e.g. TOEFL or IELTS

Accreditation

The master program of Polymer Science has been accredited by ASIIN, an accreditation agency for degree programs in engineering, informatics, computer sciences, natural sciences, and mathematics. (www.asiin.de)

Application

Applications must be submitted to the Admission Coordinator/Program Secretary of the M.Sc. in Polymer Science Program. Regarding scholarships, applicants may contact the DAAD (Deutscher Akademischer Austauschdienst/ German Academic Exchange Service) at www.daad.de and should follow the scholarship application process as outlined.

More Information

For more information about the application procedure, the teaching program, the detailed study and examination regulations, etc. please visit www.polymer-science.de

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Consultation & Contact

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Admission Coordinator/Program Secretary

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Universität Potsdam

POLYMER SCIENCE

Master of Science



Program Focus

Polymer Science is an interdisciplinary area comprised of chemical, physical, engineering, processing, and theoretical aspects. It also has an enormous impact on contemporary materials science. It provides a basis for the creation and characterization of polymeric materials and an understanding for structure/property relationships. The master program was jointly designed by polymer scientists from the Free University of Berlin, the Humboldt University of Berlin, the Technical University of Berlin, and the University of Potsdam with the goal to be competitive with renowned polymer centers worldwide.

Career Prospects

Polymer Science is of increasing importance to everyone's daily life and provides enormous potential for future economic growth. Many modern functional materials and devices contain polymers as integral parts. Not surprisingly, roughly 30% of all scientists in the chemical industry work in the field of polymers. Since the program is held in English only, it can accommodate students from all over the world and prepares them for scientific and technical work in the field everywhere.

Learning Goals

The main intention of the program is the training of interdisciplinary polymer scientists at a high level. Successful graduates of the program will be able to communicate with polymer chemists, polymer physicists and polymer engineers in their respective scientific and technical languages and will know how to integrate essential aspects of these three disciplines in their work. Furthermore, they will have the competence to independently perform theoretical, experimental and applied tasks at high scientific quality levels in research and technology. The participating universities are very well equipped with state-of-the-art apparatus and laboratories, specialty workshops, large service units, and modern computer facilities. The work of the polymer scientists in charge of the Polymer Science program is internationally renowned and endowed by industry, state, and private grants and awards.

Associated Institutes

- BAM Federal Institute of Materials Research and Testing (www.bam.de)
- Fraunhofer Institute for Applied Polymer Research (www.iap.fraunhofer.de)
- GKSS Research Centre of the Helmholtz Association of German Research Centres (www.gkss.de)
- Max-Planck Institute of Colloids and Interfaces (www.mpikg.mpg.de)

Curriculum

The full-time master program is a two-year program without any tuition fee. The first year of studies contains lectures and practical courses in Basic Polymer Science. With the beginning of the third semester (second year), students have to



specialize in one of the polymer fields and continue with lectures, seminars and lab work related to their chosen specialization. There is a possibility to continue within one of our advanced Ph.D. programs after successful completion of the M.Sc. in Polymer Science Program. All courses are grouped into the following modules:

1st year Basic Polymer Science	
1st quarter Polymer Chemistry/Synthesis (Free University of Berlin)	60 credits
2nd quarter Polymer Physics/Characterization (Humboldt University of Berlin)	
3rd quarter Polymer Engineering/Processing (Technical University of Berlin)	
4th quarter Polymer Properties/Colloids (University of Potsdam)	
2nd year Advanced Polymer Science	
5th & 6th quarter In-depth courses and lab work in a special discipline (essentially at one of the four universities)	30 credits
5th & 6th quarter : Practical laboratory courses and preliminary work on the Master thesis at the same university	
7th & 8th quarter Master thesis and defense	30 credits
End of 8th quarter M.Sc. in Polymer Science Degree (granted jointly by the four universities)	