



Conducting research for a changing society: This is what drives us at Forschungszentrum Jülich. As a member of the Helmholtz Association, we aim to tackle the grand societal challenges of our time and conduct research into the possibilities of a digitized society, a climate-friendly energy system, and a resource-efficient economy. Work together with around 7,500 employees in one of Europe's biggest research centres and help us to shape change!

The research group "Biocatalysis" at the Institute of Bio- und Geosciences - Biotechnology (IBG-1) builds complex products from renewable raw materials using synthetic enzyme cascades. For this purpose, they combine - in a modular and flexible way - enzymes that do not occur together in nature. Rational enzyme engineering, reaction optimization and process design are used to obtain economically and ecologically efficient cascades. The advertised internship/thesis is conducted in the scope of the MSCA funded project "BiodeCCodiNNG", an international team collaborating across Europe. BiodeCCodiNNG is dedicated to decoding novel reaction chemistries in biocatalysis and training Europe's next visionaries for a sustainable future.

We are looking to recruit a

Internship, Bachelor or Master Thesis in Biocatalysis

Your Job:

Within the scope of expanding the toolbox of C-C bond forming enzymes, you will tackle a specific aspect in enzymatic synthesis of two pharmaceutical precursors with high chemo- and stereoselectivity. Typical research targets include:

- Identification and (optionally) engineering of suitable enzymes
- Development of analytical methods (HPLC, ...)
- Production of enzymes
- Process development and optimisation
- Scale-up and product isolation

Currently, we are in the phase of identifying suitable enzymes so you would join us right from the start! Be invited to apply at a later point, too, and take over the project to tackle the next step (e.g. optimisation) as your research question. You will independently plan, conduct, evaluate, and present your experiments. You can rely on an introduction to the lab and relevant methods, as well as regular meetings to discuss your work. From our side, you can choose between German and English as thesis language.

The job will be advertised until the position has been successfully filled. You should therefore submit your application as soon as possible. We look forward to receiving your application via our

Online-Recruitment-System!

Questions about the vacancy?

Get in touch with us by using **our contact form**.

Please note that for technical reasons we cannot accept applications via email.
www.fz-juelich.de

Your Profile:

Required qualifications:

- Master or bachelor student in a related field
- Interest or background in synthetic biology, biocatalysis, process development, and chemistry

Further desired qualifications:

- Independent and analytical work style
- Structured approach
- For bachelor's students, we particularly invite to apply for a research internship with the option to extend their stay for bachelor's thesis (if suitable).

Please feel free to apply for the position even if you do not have all the required skills and knowledge. We may be able to teach you missing skills during your induction.

Our Offer:

We work on the very latest issues that impact our society and are offering you the chance to actively help in shaping the change! We support you in your work with:

- An interesting and socially relevant topic for your thesis with future-oriented themes
- Ideal conditions for gaining practical experience alongside your studies
- An interdisciplinary collaboration on projects in an international, committed and collegial team
- Excellent technical equipment and the newest technology
- Qualified support through your scientific colleagues
- The chance to independently prepare and work on your tasks
- Flexible working hours as well as a reasonable remuneration
- A large research campus with green spaces, offering the best possible means for networking with colleagues and pursuing sports alongside work

In addition to exciting tasks and a collaborative working atmosphere at Jülich, we have a lot more to offer: <https://go.fzj.de/benefits>

We welcome applications from people with diverse backgrounds, e.g. in terms of age, gender, disability, sexual orientation / identity, and social, ethnic and religious origin. A diverse and inclusive working environment with equal opportunities in which everyone can realize their potential is important to us.

Further information on diversity and equal opportunities: <https://go.fzj.de/equality>