



International PhD Program



**doc.fund *Catalytic mechanisms and Applications of Oxidoreductases* (CATALOX)**



**NAWI Graz**  
Natural Sciences

**Open Call for 12 doctoral student positions**

**at the**

**Graz University of Technology and the University of Graz, Austria**

Doc.funds are PhD education programs supported by the Austrian Science Fund FWF.

The doc.fund program "CATalytic mechanisms and AppLications of OXidoreductases" (CATALOX) is an international and interdisciplinary training program for doctoral students of Molecular Biosciences and Biotechnology at the *Graz University of Technology* and the *University of Graz*, Austria.

CATALOX connects the mechanistic understanding of redox enzymes on a molecular level with research on their synthetic application. Oxidoreductases are highly important biocatalysts for the chemical and pharmaceutical industries. The PhD projects are highly multidisciplinary between chemistry, biosciences and engineering and cover a wide range of topics from the generation of novel enzyme activities by protein engineering to the process intensification of multi-enzyme cascade reactions. Focus of the proposed research projects is on enzymes that utilize NAD(P) coenzymes and heme or flavin cofactors in their reactions.

Selected PhD students will be in the training program for 3-4 years starting from Oct 1, 2019. The program includes a close collaboration to the existing platform of the Austrian Centre for Industrial Biotechnology to discuss the utility of our scientific discoveries for applications. The doc.funds program also offers a broad selection of translational education opportunities and provides graduates with the best education to become leading experts in a knowledge-based society. For detailed information and submission of applications, please visit <https://www.tugraz.at/institute/imbt/education/docfund-catalox/>. Selected candidates for the doc.fund CATALOX will be invited to interview in Graz, Austria, June 12-13, 2019.

**Who can apply for admission to the doc.funds CATALOX?** We are seeking talented and ambitious young scientists who are interested in pursuing a research career. Students of all nationalities are encouraged to apply. The language of instruction is English and applicants are expected to be highly proficient in this language. Applicants should hold a Masters degree (or equivalent degree) in biological sciences, chemistry, biochemistry, molecular biology, biophysics, biotechnology, or a related discipline including a written Master thesis. Enrollment at the TU Graz and the University of Graz requires that international students fulfill proven eligibility requirements for entering a PhD program that normally apply in the country where they completed their Masters education. Candidates will be selected on a competitive basis and will be selected without regard to sex, race or nationality.