

Institutions

This doctoral program is a joint collaboration between departments of LMU Hospital and LMU:

- Department of Pediatric Cardiology and Pediatric Intensive Care
- Department of Cardiology
- Department of Cardiac Surgery
- Department of Congenital and Pediatric Heart Surgery
- Department of Vascular Surgery
- Department of Angiology
- Institute of Cardiovascular Physiology and Pathophysiology



Spokesperson



Prof. Dr. med. Nikolaus Haas
Department of Pediatric Cardiology and
Pediatric Intensive Care
LMU University Hospital

Ph.D. Program Coordination

Dr. Sarah Scholze
Department of Pediatric Cardiology and
Pediatric Intensive Care
LMU University Hospital



Application

Applications are submitted via an online portal, open annually from December 1 to January 31 for winter semester admissions.

Minimum application requirements

- A qualifying degree in medicine, veterinary medicine, pharmacy, life/health sciences, or a related disciplines (min. 240 ECTS)
- English proficiency: EU Level B2, TOEFL 87 -109, IELTS 5.0 - 6.5, or equivalents; native speakers or entire academic education in English
- A well-formulated and consistent research proposal
- Sufficient funding for the project and stay(s) in Munich
- Local supervisor support (for research projects outside LMU Hospital)

Contact

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Ph.D. Medical Research – Cardiovascular Science Unlock the secrets of the CVS with us



Dear potential applicant,

Welcome to the forefront of cardiovascular science, where passion meets purpose and discovery drives advancement.

Our three-year, full-time doctoral program in Cardiovascular Science has been carefully designed to engage ambitious researchers like you in the fascinating world of the heart and its associated systems.

Through an innovative sandwich model, we offer a unique opportunity to complete a Ph.D. both within and outside the LMU University Hospital. Acknowledging the global nature of medical challenges, we value diverse perspectives and warmly welcome international students to our collaborative research environment.

Begin your journey with a strong foundation in cardiovascular physiology, pathophysiology, and advanced research methods, exploring either basic cardiovascular research or impactful clinical studies.

Join us as we explore unexplored areas together, challenge conventions and shape a healthier future for millions of people worldwide. Join us and become a researcher in cardiovascular science, where the heart of tomorrow's medical breakthroughs beats. Are you ready to listen?

We look forward to receiving your application.

Prof. Dr. med. Nikolaus Haas

General Information

The Ph.D. program offers an academic education and research environment to scientists from all around the world in various aspects of cardiovascular science. From cardiology to vascular and cardiac surgery, including pediatric cardiac procedures, the curriculum is designed to push the boundaries of research in this field.

- **Total credits:** 180 ECTS
- **Program Language:** English
- **Course duration:** 3 year full-time, sandwich-structure



Thesis Advisory Committee (TAC)

Each of our Ph.D. candidates is guided by a dedicated Thesis Advisory Committee, consisting of the main supervisor, a second thesis reviewer and an additional expert in the field of study.

All TAC members are senior researchers with outstanding academic credentials and extensive experience in supervising doctoral candidates. TAC meetings are held approximately once a year to monitor progress, address emerging challenges, and evaluate achievements in the candidate's research project.

Curriculum and ECTS

Individually selectable ECTS

According to the MMRS guidelines, doctoral students must earn 30 ECTS, divided into three categories, allowing them to pursue individual interests and develop project-specific skills:

- **Methods** (17 ECTS)
- **Conferences, Retreats, etc.** (8 ECTS)
- **Transferable Skills** (5 ECTS)

Mandatory ECTS

While the curriculum is tailored to each young researcher's needs and project challenges, the following training components are mandatory for all students:

- **Study Blocks in Munich**
- **Bi-monthly Progress Meetings**
- **TAC Meetings**



Graduation

The duration of the Ph.D. program varies between six to ten semesters. Upon completing the dissertation and oral defense, graduates earn the title, **Doctor of Philosophy (Ph.D.) in Medical Research – Cardiovascular Science**.

