

CeMM PhD PROGRAM

The CeMM International PhD Program in Molecular Technologies and Systems Medicine

- **Do you want to work in an environment that promotes free-minded scientific creativity, and translate your findings to impact medical practice and improve healthcare?**
- **Are you excited to gain a new understanding of the molecular physiology and pathology of humans?**
- **Do you want to join an international group of highly collaborative and successful colleagues that help you achieve your training and research goals?**
- **Are you a person who enjoys teamwork across disciplines and within a broader cultural and social context?**

If yes, apply now for one of our 15 fully funded PhD positions here: <https://apply.cemm.at/>

The next PhD Program at CeMM, the Research Center for Molecular Medicine of the Austrian Academy of Sciences in Vienna, together with our partners the Medical University of Vienna, the CCRI St. Anna Children's Cancer Research Institute and AITHYRA, the newly founded Research Institute for Biomedical AI of the Austrian Academy of Sciences, will start in September 2025.

We offer:

- + a highly interactive 3-month introductory program in a supportive peer-group environment
- + supervision by a top scientist and support of the entire Faculty at CeMM
- + a dynamic and highly multidisciplinary international research environment
- + full access to state-of-the-art technologies
- + a generous scholarship, which covers all research costs, university fees, work-related travel expenses, salary and health insurance for 4 years
- + a PhD degree awarded by the Medical University of Vienna

You are:

- + an exceptionally motivated PhD candidate with a keen interest in interdisciplinary teamwork and science that nurtures the precise, personalized, predictive and preventive medicine of the future
- + excellent in writing and speaking English
- + a candidate who holds, or will obtain by September 2025, a final degree in medicine, biology, chemistry, bioinformatics, computer science, engineering, physics, mathematics, or a closely related field. The minimum qualification required is a four-year Bachelor's degree with honours.

The research area

The 2025 CeMM PhD Program will focus on the thematic areas of infection, immunity, metabolism, cancer, rare diseases, network medicine, design chemistry, patient-derived organoids, bioengineering and ageing research. These areas are built on the pillars of genomics and proteomics, molecular and cell biology, epigenetics and genome integrity, bioinformatics, machine learning, systems biology, chemical biology and organic chemical synthesis, high-throughput genetics and high content automatic imaging.

The program

Our goal is to enable and empower students with the ability to successfully design, execute, manage and explain a research project in modern molecular medicine, through a strongly participatory and interactive program. The program is conceptualized in three 'modes': collect, connect and contribute. These will guide you through scientific excellence in data generation and validation to responsible and professional scientific citizenship.

The host and partner institutes

CeMM, the Medical University of Vienna, the CCRI and AITHYRA are partner institutes with identical principles of excellence, competitiveness, internationality, as well as mentoring and training, operating in a unique mode of super-cooperation. Here biology is connected with medicine, experiments with computation, discovery with translation, and science with society and the arts.



St. Anna Kinderkrebsforschung
CHILDREN'S CANCER RESEARCH INSTITUTE



MEDIZINISCHE
UNIVERSITÄT WIEN

The mission of CeMM, the Research Center for Molecular Medicine of the Austrian Academy of Sciences is to achieve maximum scientific innovation in molecular medicine to improve healthcare. At CeMM, an international and creative team of scientists and medical doctors pursues free-minded, basic life science research in a large and vibrant hospital environment of outstanding medical tradition and practice. CeMM's research is based on post-genomic technologies and focuses on societally important diseases, such as immune disorders and infections, cancer, metabolic disorders, and ageing. The goal of CeMM is to pioneer the science that nurtures the precise, personalized, predictive, and preventive medicine of the future.

CeMM enjoys a privileged location right at the heart of the Medical Campus Vienna, one of the largest in Europe, door-to-door with the Medical University of Vienna, the Vienna General Hospital (AKH) and the CCRI. The Medical University of Vienna is the largest medical research institution in Austria and the AKH is one of the largest hospitals in Europe treating several hundred thousand people a year. The CCRI works hard to develop new and improved treatment options for the 250-300 children and adolescents diagnosed with cancer each year in Austria. AITHYRA, a new institute for Biomedical Artificial Intelligence will make revolutionary advances in biomedicine by developing AI-based research approaches.

The partner institutions, CeMM, CCRI, the Medical University of Vienna and AITHYRA are located within walking distance of Vienna's historical city centre. Vienna is repeatedly ranked as the world's best city to live in and is a United Nations city with a large international, English-speaking community. The official language at CeMM is English, and 49 different nationalities are currently represented at the institutes.

For more information about applying to the PhD Program visit the website: <https://cemm.at/phd-program>. For more information about the partner institutes visit the websites: www.cemm.at, www.ccri.at, <https://www.meduniwien.ac.at/web/en/> and <https://www.oewaw.ac.at/aithyra>

Information session

At both 10:00 and 17:00 CET on 8th January 2025, CeMM will host an online information event where you will be able to find out more about doing a PhD at CeMM and applying to the program as well as have the chance to meet and talk directly with current PhD students. Please sign-up here [PhD Open Day – CeMM](#), or visit the PhD program page CeMM website.

CeMM

PhD PROGRAM



15 fully funded PhD fellowships
available in Biomedical and
Computational Sciences

Deadline for applications: 21 January 2025 <https://apply.cemm.at/>

Are you a medic, biologist, chemist, bioinformatician, computer scientist, engineer, physicist, mathematician or have a degree in a similar subject and would like to work on an exciting research project in:

- Infection
- Immunity
- Metabolism
- Cancer
- Rare diseases
- Network medicine
- Design chemistry
- Patient-derived organoids
- Bioengineering
- Machine Learning/AI
- Ageing research

We offer:

- + **4 years funding** (including all research costs and health insurance)
- + A **highly interactive** 3-month introductory training program
- + Full access to **state-of-the-art technologies**
- + **Supervision by a top scientist** and support of the entire Faculty
- + An **international program** in the heart of a scientifically active and culturally vibrant European city