

PhD positions in Data Science with applications in Life Science, Earth Science, and Energy Systems & Materials

Since March 2019 the international graduate school “Helmholtz School for Data Science in Life, Earth and Energy” (HDS-LEE) is established between RWTH Aachen University, Forschungszentrum Jülich, the University of Cologne, the German Aerospace Center (DLR), and the Max-Planck-Institut für Eisenforschung. HDS-LEE provides an interdisciplinary environment for educating the next generation of data scientists in close contact to domain-specific knowledge and research. All three domains – life & medical sciences, earth sciences, and energy systems/materials – are characterized by the generation of huge heterogeneously structured data sets, which have to be evaluated in order to obtain a holistic understanding of very complex systems.

Program overview

The international graduate school program is addressed to excellent students with mathematics, computer science, natural sciences and engineering master degrees who are willing to work at the interface between domain-related research and data science.

Candidates will be offered a clearly structured three-year program comprising:

- Block course “data science methods and applications”
- Compulsory elective training courses, e.g. training days at the Jülich Supercomputing Center (JSC)
- Annual retreat and data science conference
- Participation in (international) conferences
- Transferable skills and career advancement

Your Profile

- Excellent degree in mathematics, computer science, natural sciences and engineering master, or a related discipline
- Expert knowledge of at least one programming language
- Very good command of English: TOEFL or equivalent evidence of English-speaking skills
- Outstanding organizational skills and the ability to work independently
- Very good cooperation and communication skills and ability to work as part of a team
- A high level of scholarship as indicated, for example, by bachelor and master study transcripts and two reference letters

Our Offer

The HDS-LEE PhD position will be located at one of the 5 partners: RWTH Aachen University, the University of Cologne, Forschungszentrum Jülich, the German Aerospace Center or the Max-Planck-Institut für Eisenforschung

We offer

- 3 year position
- Pay in line with 100 % of pay group 13 of the Collective Agreement for the Public Service (TVöD /TV-L)
- Unique HDS-LEE graduate school program
- A highly motivated group as well as an international and interdisciplinary working environment
- Outstanding scientific and technical infrastructure – ideal conditions for successfully completing a doctoral degree
- Chance of participating in (international) conferences
- Continuous scientific mentoring by your scientific advisor
- Doctoral degree conferred by the respective university
- Further development of your personal strengths, e.g. via a comprehensive further training program

Open positions within HDS-LEE can be found at: <https://www.hds-lee.de/admission/>

Equal career prospects for women and men. Severely disabled applicants with equal qualification will be given preferential consideration.

Become a part of HDS-LEE.