

# Student Internship IP2TIS 2024 - Data Scientist in Research and Development (R&D)

Penzberg, Bavaria, Germany

## The Position

Join our dynamic team at Roche and contribute to meaningful initiatives in sustainability and innovation. Our [Global Internship Programme in Innovation & Sustainability #IP2TIS](#) offers a unique opportunity for passionate individuals to gain hands-on experience in the pharmaceutical industry while making a positive impact on the world. As a sustainability and innovation intern, you will work on cutting-edge projects that align with our commitment to environmental responsibility, social impact, and forward-thinking solutions.

As part of our team, you will engage in advanced research and development, working on new inventions and innovative solutions. You will have the unique opportunity to experience working in a shared position in two closely collaborating departments - data science and system development, thereby gaining invaluable hands-on insights in both system integration and software enhancements.

In our Data Science & Biostatistics department our vision is to translate data into actionable insights to guide medical decisions and improve quality of life. We catalyze research and business by applying our broad expertise in data science, statistics and software development to create custom solutions in each phase of the product life cycle.

Our Assay and System Development Team is responsible for the development and application of new diagnostic tests on Roche analyzers as well as for Roche's existing portfolio of laboratory diagnostics. In multidisciplinary international project teams, we are currently working on solutions to expand the application possibilities of our portfolio with innovative approaches and open new paths in laboratory diagnostics.

This internship position is located in Penzberg hybrid. A Roche shuttle from Munich is available.

### Your key responsibilities will include

- ◆ developing/training a machine learning algorithm on research/real-world data, analyzing its performance and efficiency. Further development of existing machine learning approaches and solutions.
- ◆ conceptualizing ideas in a business landscape and sharpening business relevance. Comparing developed concepts with existing solutions.
- ◆ exploring possibilities to expand the concept to other diagnostic systems.
- ◆ documentation of your research results and presentation to relevant stakeholders.

### Who You Are

You are enrolled or have completed your Master's studies or PhD at a university, preferably in the field of Biostatistics, Bioinformatics, Mathematics, Physics, Engineering, or a comparable degree within the last 12 months and are interested in applying your knowledge in a modern working environment as part of an internship of at least 3 months and getting to know the pharmaceutical industry.

**Furthermore you possess the following skillset**

- ◆ You have an interest in machine learning methods and a strong knowledge of supervised learning methods (SVMs, Random Forests,...) and their applications.
- ◆ You have excellent analytical and problem-solving skills to apply biostatistical methods in practice, with the ability to think creatively and strategically.
- ◆ You have solid programming skills in R or Python.
- ◆ You have strong communication skills and are open-minded with an interest in health and innovation.
- ◆ You have proficient language skills in English. German is a plus.

**Technical details:**

The start date for the internship is 1. July 2024.

The application deadline is April 15.

If you have any questions, take a look at our FAQs and videos at [careers.roche.com/global/en/faq](https://careers.roche.com/global/en/faq).

**Your contact to us! With people. For people.**

Do you need more support?

Our Talent Acquisition Team welcomes your questions. Please send an email to

[germany.talent\\_acquisition@roche.com](mailto:germany.talent_acquisition@roche.com)

**Who we are**

At Roche, more than 100,000 people across 100 countries are pushing back the frontiers of healthcare. Working together, we've become one of the world's leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity.

Roche at Penzberg, near Munich, employs more than 7,000 people. The site is one of the largest biotechnology centers in Europe and the only Roche site with research, development and production for both Pharmaceuticals and Diagnostics under one roof. From your beginning with Roche, our motivated team will welcome and support you. Numerous opportunities for personal development, flexible work hours, attractive compensation packages and special family assistance programs are available.