

1 of 4 8/15/2025, 6:25 PM

# **Software Tools Developer Hiwi**

# Job vacancy: From now on

Entry from the 08.08.2025 Position number 119372

# **Description**

## About Us

The Institute for Nuclear Waste Disposal (INE) at KIT drives cutting-edge research in radiochemistry and X-ray spectroscopy. Work spans from X-ray absorption/emission-based investigations using the globally unique NEXT spectrometer at the CAT-ACT beamline to spectroscopic methods supporting actinide and lanthanide speciation and behavior.

#### Role Overview

We're seeking a passionate Software Tools Developer to seamlessly take over, maintain, and enhance bespoke Python-based tools designed for beamline support and data analysis. The right candidate will collaborate directly with physicists and chemists, ensuring that software solutions advance both functionality and scientific rigor.

# Key Responsibilities

- Inherit, maintain, and evolve existing Python-based tools like dashboards, analysis tools etc for beamline support, experiment control, and post-processing.
- Develop and integrate new software components to streamline spectroscopy workflows and enhance UX for scientists.
- Ensure robustness through automated testing, version control, documentation, and deployment in beamline environments (Linux/controlled area systems/Windows sometimes).
- Contribute to user documentation, training resources, and software lifecycle management.

#### **Essential Qualifications**

- Proven experience in Python and C++ development
- Comfortable working across Linux (and possibly Windows) environments with command-line, scripting, and automation tools.
- Familiar with standard software development practices: version control (e.g., Git), testing, documentation, and CI/CD workflows.
- Good communication skills to bridge the gap between software engineering and scientific research.
- Strong analytical skills and a methodical approach to problem-solving, especially in interdisciplinary settings.
- Experience with GUI frameworks or user interface enhancements (e.g., PyQt, web frontends).
- Please send your CV, sample code or portfolio (e.g., GitHub), and a brief note about your background or interest in the role to: anusha.shivaraju@kit.edu

#### Interested?

Please send your CV, sample code or portfolio (e.g., GitHub), and a brief note about your background or interest in the role to: anusha.shivaraju@kit.edu

2 of 4 8/15/2025, 6:25 PM

Career Service Portal :: Job Market

we are reviewing applications immediately, and the position will be tilled as soon as we find the right candidate.

Job type/category Working student

Field of study preferred Engineering sciences

Informatics

Engineering Education

Information System Engineering and Management

**Favored career stage** Student

Location/region Karlsruhe city, Karlsruhe region

Yes

Sector IT & information technology

Language at workplace German and english

Is the position suitable for

international students with B2

German language skills?

Type of company Scientific institution

Home office Homeoffice possible

# Contact

## Mrs. / Ms. Anusha Shivaraju

Institut für Nukleare Entsorgung

Karlsruhe

E-Mail: Please log in to read the stated e-mail address

Get in touch

Zurück zur Anzeigenübersicht (./)

#### **TOP JOBS**



Bauingenieur (m/w/d) (/en/ jobboerse/?id=119233)

#### **ROBUSTA-GAUKEL GmbH & Co.KG**

Baden-Württemberg

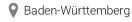
( Junior) Cloud Data Engineer

3 of 4 8/15/2025, 6:25 PM Career Service Portal :: Job Market



(all genders) (/en/ jobboerse/?id=119376)

# **DYMATRIX GmbH**



4 of 4