



# RESEARCH ASSOCIATE FOR THE PROJECT “FLEXIBLE PRODUCTION SOLUTION BASED ON INTELLIGENT SCHEDULING SYSTEM” § 28 SUBSECTION 3 HMBHG

**Institution:** Faculty of Mathematics, Informatics and Natural Sciences, Department of Informatics, Group TAMS (Technical Aspects of Multimodal Systems)

**Salary level:** EGR. 13 TV-L

**Start date:** 01.02.2022 or as soon as possible, fixed until 31.01.2024 (this is a fixed-term contract in accordance with Section 2 of the academic fixed-term labor contract act [Wissenschaftszeitvertragsgesetz, WissZeitVG])

**Application deadline:** 2022-01-10

**Scope of work:** full-time position suitable for part-time

## Responsibilities:

Duties include academic services in the project named above. Research associates may also pursue independent research and further academic qualifications.

## Specific Duties:

- developing the main algorithm for production scheduling. It is a fusion of policy-based reinforcement learning and a genetic algorithm
- organizing and training data according to the data structure and the user requirement of the target company. Based on it, building the prototype model for the Proof-of-Concept environment
- data framework documentation, including the content of data structure requirement, preprocessing method, data streaming framework, algorithm output format, and so on
- application of the algorithms in a robot-based flexible production system

## Requirements:

A university degree in a relevant field plus doctorate. Experience in reinforcement learning methods, real robot manipulation programming, and robot applications for service or production.

## We offer



wage agreements



Flexible working hours



Work-life balance opportunities



Attractive location



Reduced rates available for a HVV-Proficard (transit pass) and much more



Health management



Educational leave



30 days of vacation per annum

As a University of Excellence, Universität Hamburg is one of the strongest research universities in Germany. As a flagship university in the greater Hamburg region, it nurtures innovative, cooperative contacts to partners within and outside academia. It also provides and promotes sustainable education, knowledge, and knowledge exchange locally, nationally, and internationally.

The Free and Hanseatic City of Hamburg promotes equal opportunity. As women are currently underrepresented in this job category at Universität Hamburg according to the evaluation conducted under the Hamburg act on gender equality (Hamburgisches Gleichstellungsgesetz, HambGleiG), we encourage women to apply for this position. Equally qualified and suitable female applicants will receive preference.

Severely disabled and disabled applicants with the same status will receive preference over equally qualified non-disabled applicants.

## Tips on applying

### Contact

Tatjana Tetsis  
[tatjana.tetsis@uni-hamburg.de](mailto:tatjana.tetsis@uni-hamburg.de)  
+49 40 42883-2430

Dr. Yihong Hu  
[yihong.hu@uni-hamburg.de](mailto:yihong.hu@uni-hamburg.de)  
+49 40 42883-2509

### Location

Vogt-Kölln-Straße 30  
22527 Hamburg  
[Zu Google Maps](#)

### Reference number

472

### Application deadline

2022-01-10

Applications should include a cover letter, a tabular curriculum vitae, and copies of degree certificate(s). Please send applications by email to: [tams-office.inf@uni-hamburg.de](mailto:tams-office.inf@uni-hamburg.de)

More information on [data protection](#) in selection procedure.