



Humatects is a company from Oldenburg with large customers like Airbus DS, ATLAS Elektronik, Hensoldt, Bosch, EWENetz and Lufthansa. We develop human-machine interaction for monitoring and control of autonomous systems in the fields of aerospace, energy, shipping and road traffic. We are looking for a

## PhD student / Doctoral Candidate

### Anomaly Detection in Multi-Agent Traffic Scenarios

#### Project Focus

Development of novel methods for cooperative long-term motion prediction and anomaly detection in complex traffic scenarios. The project combines human behavior models with V2X-based cooperative perception to enable early detection of safety-critical and malicious driving behavior under realistic communication constraints.

#### Your Tasks

- Develop algorithms for cooperative prediction via V2X
- Design methods for early detection of critical/malicious behavior
- Implement and validate approaches in multi-agent simulations

#### Eligibility (Mandatory)

- Early Career Researcher (no PhD awarded)
- Mobility rule: not resided/worked in Germany >12 months in last 3 years
- Master's degree (min. 240 ECTS) completed before recruitment
- English level B2 or higher

#### Salary

Approx. €3,908 gross/month (incl. mobility allowance; family allowance if applicable).

**Applications should be submitted via the online [Application Form](#)**

**Further information: <https://spring-project.eu/doctoral-projects/>**