

Who are we

[GATE institute "Big Data for Smart Society"](#) is an autonomous research institute, established in 2019 in Sofia, Bulgaria as a joint initiative between Sofia University Bulgaria, Chalmers University of Technology and Chalmers Industrial Technology, Sweden. Its mission is to accelerate the Big Data and Artificial Intelligence research, innovation and education in collaboration with government, industry and society as a whole.

We are working on innovative solutions, which develop research excellence in three technology areas – Data Insight, Data Analytics and Data Management – and on a cross cutting area – Engineering and development. Moreover, we are working on advanced analytics solutions in four application domains – Future Cities, Intelligent Government, Smart Industry and Digital Health, which are now in the front line for creating actionable value for society, bringing human centricity and better decision-making to the stakeholders.

We offer diverse opportunities for career growth, foster research freedom and provide maximum support for personal initiative.

With respect to its planned intensive development in 2021, we are looking for young talents to join our internship programme.

What we offer

- 3-6 months internship
- Attractive stipends
- Hands-on experience of thriving research
- Work in bright, friendly and energetic international teams
- Live projects, extensive coaching and career counseling
- Development of professional skills and competences in Big Data and Artificial Intelligence
- Opportunity to join GATE team as a junior researcher

Who we are looking for

- A Bachelor (III – IV year) or a Master-degree student in ICT
- Strong motivation to carry out research and produce results under supervision
- Love for insights and aptitude of critical analysis, evaluation and synthesis of new and complex ideas
- Understanding of Big Data and Artificial Intelligence, data management, analytics and visualization
- Experience with programming (e.g., Python, Java, C++, or other)
- Excellent English

If you have projects, you are proud of, please do share them with us!



Expectations and tasks

As an intern in our team, you will be involved in our Big Data Platform project:

- Storing fast growing packet and sensor data in NoSQL repositories, transactional data in SQL databases, semi-structured and unstructured data in Hadoop
- Pre-processing binary and numerical data by filtering, normalizing, formatting and encryption
- Transporting data synchronously or asynchronously using protocols such as Kafka and MQTT
- Programming of machine learning algorithms for processing Big Data in motion (real-time analytics for change detection, correlation, clustering and classification) or at rest (for feature extraction, pattern recognition, trends analysis and prediction)
- Docker containerization, Kubernetes management and AirFlow orchestration of data processing workflows on private cloud

For more information about the tasks and joining Big Data Platform team, please contact vassil.vasilev@gate-ai.eu.

How to apply

If you feel like you would fit in with our team, please fill the [registration form](#) of GATE internship programme and share your CV and motivation letter until **25.06.2021**.

Your internship is expected to start after **5 July 2021**.

Only selected for interview candidates will be contacted.

Joining the GATE internship programme, you will open the most exciting chapter of your career!

