**Research Associate (75% TV-L 13)**

We are looking for several Research Associates/PhD Candidates (Wissenschaftliche(r) Mitarbeiter(in)) to work in the **TIB Research Department** under supervision of Prof. Dr. Sören Auer and Prof. (Univ. Simon Bolivar) Dr. Maria-Esther Vidal. Initial appointment will be for 3 years with the possibility of extension, starting as soon as possible. The candidate’s competence area should be squarely rooted in computer science or a related field, she should be able to think creatively, grasp new knowledge quickly, be able to combine abstract reasoning with concrete problem solving and be interested in mastering complex challenges.

**Requirements:**

- A Master degree in a relevant field (Computer Science, Mathematics, Information Science)
- Proficiency in spoken and written English. Proficiency in German is a plus.
- Excellent proficiency in modern programming languages and modern software engineering methodologies. Proven team software development skills.
- Interest in mastering and applying formal methods.
- Familiarity with Semantic Technologies, Big Data Management, Human-Computer Interaction, Natural Language Processing, Artificial Intelligence, Data Analytics, Life Sciences, or Digital Libraries is an asset.

**Possible PhD topics include** (but are not limited to):

- **Scientific Data Management - Semantic Data Lakes for Science** - requires demonstrated, rigorous knowledge of data management (relational databases, SQL, graph databases, XML, RDF) and good knowledge of Big Data technologies
- **Research Data Containers** - requires demonstrated, rigorous knowledge of data management and virtualization techniques (Docker)
- **Semantic Scholarly Communication (Semantic Papers)** - requires good knowledge of semantic knowledge representation
- **Semantic Scholarly Metadata management (OpenResearch)** - requires good knowledge of semantic knowledge representation
- **Exploration & Search of Scholarly Metadata (ORCHID Publishing)** - requires human-computer interaction, information visualization and retrieval expertise
- **DBpedia Knowledge Graph Management** - requires good knowledge of semantic data management technologies
- **Collaborative OpenCourseWare creation (SlideWiki.org)** - requires good human-computer interaction and frontend development skills
- **Question Answering Infrastructure (WDAqua/Qanary)** - requires excellent software architecture skills, interest in semantic technologies and natural language processing

**What we offer:** We provide an scientifically and intellectually inspiring environment with an entrepreneurial mindset embedded in a **leading technical university** and one of the **largest technical information centers** being part of **Leibniz research association**. Our aim is to provide the environment and resources to enable the candidates to successfully complete their PhD.

- PhD candidates will work in the context of a national, european or international research and innovation project.
- Funding is available for equipment, conference and research visit travel.
- A portfolio of technology components to build on, including DBpedia, BigDataEurope Platform, OntoWiki, Qanary QA, OpenResearch.org, SlideWiki, iASiS, etc.
- Qualified candidates will start in level **TV-L 13 (75%) of the German public service pay-scale** (approx. 1,700-2,000 Euro net monthly salary depending on experience including all German social benefits).

The positions start as soon as possible, are open until filled and will be granted initially for 3 years with envisioned extension.
How to apply: Please send your CV, a letter of reference and a two page motivational statement (incl. research, and technology interest) to Prof. (Univ. Simon Bolivar) Dr. Maria-Esther Vidal (vidal@cs.uni-bonn.de). Please do not send emails larger than 10 MB.