



Human Language Technologies Scientist/Engineer

Boston • DC • Dayton

Aptima currently has openings for passionate, creative Scientist/Engineers interested in working on a variety of applied projects related to topics such as Statistical Modeling, Human Language Technologies, Natural Language Processing (NLP), Machine Learning, and Computational Linguistics. Most of our work with these technologies involves applying existing methods and integrating them with other capabilities to address particular customer problems or evaluating the use of such methods for such problems. The ideal candidate will possess strong skills in problem analysis, mathematical formulation, algorithm development, model implementation and analysis.

Minimum Requirements:

- Ph.D. or Masters degree in Computational Linguistics, Applied Mathematics, Computer Science, Cognitive Science, or a related field; Suitable applicants may range from recent masters graduates through established mid-career professionals; expectations, responsibilities, and compensation will be commensurate with experience.
- Understanding of underlying theories and at least 2 years of experience developing and implementing solutions using several of the following approaches:
 - Statistical NLP techniques (Latent Semantic Analysis, Latent Dirichlet Allocation, or other topic modeling techniques)
 - Machine learning techniques (supervised, unsupervised, semi-supervised)
 - Clustering, classification, or regression analyses (support vector machines, Bayesian classifiers, Kernel methods, Hidden Markov models)
 - Communication and network analyses (social network analysis, epidemiological modeling)
 - Non-parametric learning techniques
 - Information extraction and retrieval
 - Cognitive modeling
 - Application and evaluation of technologies that utilize NLP technologies (GATE, WEKA, etc.)
- Experience implementing complex algorithms and models in Java or C#
- Journal and/or other refereed publications
- Experience writing technical reports and/or proposals
- U.S. Citizenship
- Active security clearance preferred; must be able to obtain Secret security clearance
- Ability and willingness to travel

The ideal candidate will also have experience/interest in at least three of the following:

- Knowledge of basic software/data design methods, data structures, and modeling standards
- Experience collaborating with software engineers, mathematicians, and intelligence analysts
- Experience in project management, business development, and/or proposal writing
- Experience in database development and application (SQL Server, MySQL, etc.)
- Experience in creating high performance/scalable/distributed applications

Aptima will compensate applicants for any travel or relocation expenses to fill this position. All applicants must be willing to work onsite in one of Aptima's office locations, Monday through Friday (no telecommuting or compressed schedules). Qualified candidates should submit a cover letter, resume/vita, and publications list to aptima_personnel@aptima.com.

All applicants selected will be subject to a government security investigation and must meet eligibility requirements for access to classified information.

AFFIRMATIVE ACTION EQUAL OPPORTUNITY EMPLOYER M/F, VETS/DISABLED