Graduate Student Research Opportunity for "Cellulose Informatics"

We're looking to hire a graduate student for a USDA-funded project on developing "CelloGraph", an ontology-based tool to capture, explore, and analyze the knowledge about cellulosic materials, their characteristics, manufacturing processes and products. We are seeking an motivated and engaging student that is willing to learn about and apply computer science and AI techniques to knowledge about cellulose. The ideal student for this highly interdisciplinary should have:

1) A background (a BS or MS degree) in Computer Science, Mathematics (with exposure to discrete mathematics and logic), or Formal Logic and an interest AND
2) some previous exposure (e.g. through university-level lab sciences) in natural sciences, specifically chemistry, biochemistry or physics or familiarity with ontologies or data analytics in those areas.

Preference will be given to applicants with a Master's degree wishing to pursue a PhD degree in either Computer Science or Spatial Information Science and Engineering.

We are offering the opportunity to work in an interdisciplinary team with experts from Computer Science (Torsten Hahmann, School of Computing and Information Science and Spatial Knowledge and AI Lab), and Bioproducts (Doug Gardner, School of Forestry and Advanced Composite Center) and Cellulose/Material Science (Jinwu Wang, US Forest Service and Advanced Composite Center, and Stephen Shaler, Director School of Forest Resources). We offer a research assistantship that comes with a monthly stipend of $2,000 and in addition cover full tuition (up to 9 credits per semester) and half the cost of the University health insurance. The project comes with funding for a period of 3 years, though continuing support will depend upon performance. The anticipated start date must be between June 1st and September 1st, 2021.

For any inquiries or questions, please contact Torsten Hahmann at torsten.hahmann@maine.edu