

**Local title of job:**       **Research Coordinator/Programmer – MAMS Project**  
**Position number:**       19756+ or 19757+

### **Statement of Duties**

#### **List of Tasks or Duties:**

*List the most important or time-consuming tasks or duties first. The list is assumed to include the general requirement 'Any other duties, consistent with the employee's classification / qualifications, as directed by the supervisor' and this need not be written in.*

- Conduct independent, leading edge research into access and identity management developments, and report findings to development team;
- Conduct independent, leading edge research into IT Security, federated access and identity management, automated policy, digital rights management, search protocols, metadata management and/or trust fabrics;
- Conduct software design and development using Object Oriented approaches (NB: The project will mostly use Java);
- Conduct research into, and implementation of, XML specifications/standards in access and identity management, SSO, IT Security, federated access and identity management, automated policy, digital rights management, search protocols, metadata management and/or trust fabrics;
- Work in accordance with the Governance model for MAMS, including with the Board of Management, CI, Researchers and the Project Managers;
- Liaison with research and vendor organizations for MAMS research and software development;
- Liaison with vendors regarding technical infrastructure, software platforms and professional services as they relate to the ongoing business of MAMS;
- Setup and configure both vendors and OSS software related to project aims, and conduct integration between software systems within the project;
- Write technical and research/academic reports about project outcomes, and give presentations on reports and related matters (including presentations at technical and research/academic conferences);
- Contribute to XML standards/specification development relevant to project aims, including participating in international technical standards/specification working groups;
- Adhere to a rigorous project management methodology, including a formalised Software Development Life Cycle, including thorough documentation of software development and systems integration/configuration;
- Competently work on multiple, competing project requirements at the same time;
- Other duties consistent with research co-ordination and software programming working on a large project within a University Research centre;

### **Summary of Selection Criteria**

#### **Essential Selection Criteria:**

- Tertiary qualifications in computer science/information technology;
- Demonstrated experience (3 years+) in access management, identity management and SSO solutions;
- Demonstrated experience (3 years+) in Object Oriented programming;
- Experience in IT Security, federated access and identity management, distributed network computing, portals, automated access policy, digital rights management, structured search protocols, metadata management, grid computing and/or trust fabrics;
- Experience in XML and related specifications/standard, particularly as they relate to access management, identity management, SSO, IT Security, federated access and identity management, automated policy, digital rights management, structured search protocols, metadata management, grid computing and/or trust fabrics;
- Experience with implementation and integration of both Open Source Software and non-OSS vendor products;
- Demonstrated ability to work on complex and diverse projects and their requirements;
- Excellent level of written and oral communication and interpersonal skills;
- Proved capability to operationalise research and software development priorities.

**Desirable Selection Criteria:**

- Postgraduate qualifications in computer science/information technology and/or extensive relevant industry experience;
- Demonstrated experience (3 years+) in IT Security, federated access and identity management, distributed network computing, portals, automated access policy, digital rights management, structured search protocols, metadata management, grid computing and/or trust fabrics;
- Demonstrated experience (3 years+) in experience in XML and related specifications/standard, particularly as they relate to access management, identity management, SSO, IT Security, federated access and identity management, automated access policy, digital rights management, structured search protocols, metadata management, grid computing and/or trust fabrics;
- Demonstrated experience (3 years+) in experience with implementation and integration of both Open Source Software and non-OSS vendor products;
- Experience with Shibboleth, Liberty Alliance, WS-Security or other similar leading edge federated access and identity management solutions.