

# COMPUTER SCIENCES

UNIVERSITY OF LORRAINE, FRANCE

(city of Nancy)

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<b>Mobility for Training activity</b> <a href="#">Mines Nancy</a> (Master students)	<b>Mobility for research activity</b> <a href="#">LORIA Laboratory</a> (Master & PhD students)
<b>5 months ( 1 semester)</b>	<b>5 months</b>
<p><b><a href="#">COMPUTER SCIENCES DEPARTMENT</a></b> (program taught in French)</p> <p><b>Semester 7 (sept-janv):</b></p> <ul style="list-style-type: none"><li>• Software engineering, Model driven architecture &amp; UML, Operating systems, Networks, Foundation of computing,</li></ul> <p><b>Semester 8 (feb-June):</b></p> <ul style="list-style-type: none"><li>• Database Essentials, Ambient systems, Embedded Systems and Robotics Semantics, Advanced Software Engineering</li></ul> <p><b>Semester 9 (sept-janv):</b></p> <ul style="list-style-type: none"><li>• Information systems lifecycle, Information Systems Risks and Quality, Interactive Systems, Modeling of Advanced Systems Advanced Knowledge Modeling, Integration</li></ul> <p><b><a href="#">NATURAL LANGUAGE PROCESSING</a></b> (program taught in English)</p> <p><b>Semester 7 (sept-janv):</b></p> <ul style="list-style-type: none"><li>• Probabilities, statistics and algorithms for AI, design and acquisition of corpus, software engineering, linguistics for NLP, project</li></ul> <p><b>Semester 8 (feb-June):</b></p> <ul style="list-style-type: none"><li>• Machine learning and semantic web, formal tools, data sciences</li></ul> <p><b>Semester 9 (sept-janv):</b></p> <ul style="list-style-type: none"><li>• Deep learning and data mining, text and speech processing, natural language processing and discourses, lexicon and grammars for NLP, project</li></ul> <p><b><a href="#">GRADUATE PROGRAM ON "BIG DATA &amp; DATA SCIENCE"</a></b> (program taught in English)</p> <p><b>Semester 9 (sept-janv) :</b></p> <ul style="list-style-type: none"><li>• Data Mining , Machine Learning , Scalable Distributed Architectures, Knowledge Extraction, Optimization, Ethics , IT System Management , Project</li></ul>	<p>(French or English speakers)</p> <ul style="list-style-type: none"><li>• <a href="#">Algorithms, Computation, Image &amp; Geometry Department</a></li><li>• <a href="#">Formal methods Department</a></li><li>• <a href="#">Networks, Systems and Services Department</a></li><li>• <a href="#">Natural Language Processing &amp; Knowledge Discovery Department</a></li><li>• <a href="#">Complex Systems, Artificial Intelligence and Robotics Department</a></li></ul>