



## INTERNSHIP PROGRAM FOR INTERNATIONAL STUDENTS

### INTERNSHIP SUBJECT FORM

Name of the Host Laboratory	Laboratoire de chimie moléculaire
Website of the Host Laboratory	<a href="https://portail.polytechnique.edu/lcm/fr">https://portail.polytechnique.edu/lcm/fr</a>
Research Group	
Internship Supervisor	Duncan Carmichael
Internship Subject	Phosphorus chemistry for electronic materials
Student's level	Master's students (1 <sup>st</sup> or 2 <sup>nd</sup> year) PhD students
Proposed Duration	3 months 4 months 5 months 6 months
Prerequisites	Some prior experience of chemical synthesis
Internship description (max. 15 lines)	<p>Phosphorus compounds are promising components for molecular electronics. with the phosphole group being particularly well- suited for projected use in place of thiophen or pyrrole moieties which are found in electronic devices such as OLEDs.</p> <p>the stage will concern the synthesis of new phospholes having characteristics that are specifically tailored for use in organic field effect transistors. An ongoing collaboration should allow the integration of any products into prototypical devices.</p>