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RÉPUBLIQUE FRANÇAISE

AMBASSADE DE FRANCE
EN AUSTRALIE

Nicolas Baudin travel grant - Internship in France proposal form

** = mandatory fields*

SECTION 1 : Hosting institution in France

Hosting institution in France*

Name*	Ecole Centrale de Lyon

Hosting laboratory / research team in France

Name*	Laboratory of Tribology and Systems Dynamics
Address*	36 Avenue Guy de Collongue, 69134 Ecully Cedex France
Web site*	Ltds.ec-lyon.fr

Supervisor of the intern in France

Name(s)*	Denis Mazuyer
Function*	Professor
E-mail*	Denis.mazuyer@ec-lyon.fr
Contact ph*	+33 472 186 288

SECTION 2 : Internship offer

Topic of the internship (title)*

Experimental and numerical simulation of tribology with textured ou random rough surfaces : effects on the lubrication regimes.

Dates of the internship*
(nb: this program supports 3 to 6 month internships with a starting date earlier than December 31, 2018)

Start: (from) 01/09/2018 **End:** (to) 01/03/2019

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Scientific and academic objectives of the internship*
(detailed description of the internship content, work expected from the intern and expected outcomes)

Cliquez ici pour taper du texte. - Understanding of basic mechanisms of friction and lubrication with rough and textured surface.

- Identification of surface morphology parameters that control the lubrication regimes transitions.

- Design of architectured surfaces to reduce friction disspation and increase bearing capabilities of the contact

- Use of experimental protocole and numercial simulations developed together by Ecole Centrale de Lyon and Curtin University to analyse the tribological behaviour of the textured lubricated contacts.

Name of industrial partner *
(participation of an industrial partner is highly recommended)

MANUTECH-USD

Main contact at the French industrial partner*

Bertrand Nicolet

Main contact at the French industrial partner's branch in Australia (if applicable)

Cliquez ici pour taper du texte.

Role of the industrial partner in the internship project

Capabilities of LASER surface Texturing and 3D

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Australian partner university

Is the internship project proposed in the framework of an existing collaboration with an Australian partner university?*	☒ **YES** ☐ **NO**
If yes: name of institution	Curtin University
Name of lab/research team in collaboration	Tribology Laboratory
Main contact	Gwidon Stachowiak
Function	Professor
E-mail	gwidon.stachowiak@curtin.edu.au
Contact ph	+61-8-9266-1467

SECTION 3 : Expected profile of applicant

Level of study *
(priority will be given to Bachelor's degree Honours students and Master's students)

Cliquez ici pour taper du texte.

Discipline*

Cliquez ici pour taper du texte.

Required qualities, knowledge and skills*

Cliquez ici pour taper du texte.

Other specific eligibility criteria *
(such as citizenship requirements, language requirements…)

Cliquez ici pour taper du texte.