



THE UNIVERSITY OF  
**SYDNEY**

## Young Leaders Program Inventing the Future

22 January – 10 February 2018, Sydney, Australia



### The University of Sydney

We are Australia's first university, with a history of leading new thinking and welcoming people from all social and cultural backgrounds for more than 160 years. We offer the widest range of academic programs of any university in Australia and we are a member of the Group of Eight network of leading Australian research universities. Our main campus is also recognised as one of the most beautiful in the world.

Since our inception, we have believed in education for all and leadership that makes lives better. Our alumni have inspired, led, entertained, challenged and improved the world around them. We have produced six prime ministers, two Nobel Laureates, three astronauts, 110 Rhodes scholars, one Pulitzer Prize winner and 145 Olympic athletes.

### Young Leaders Program: Inventing the Future

**Inventing the Future (ItF)** is an interdisciplinary short course, jointly run by the faculties of Science, Engineering and Information Technologies, Business, and the School of Architecture, Design and Planning at the University of Sydney. The course is aimed at high achieving postgraduate and undergraduate students, to provide them with advanced skills in research translation, design and innovation.

The students will work in teams assigned by the teaching staff and will need to complete a pre-work task (a short report) prior to their arrival in Sydney.

Each team will include members with diverse technical, design and business skills. It encourages students to be highly creative, work in teams, and look beyond their own disciplines to develop solutions that are genuinely novel. The students will also have the opportunity to work with University of Sydney student mentors.

ItF encourages a future-focused approach to innovation, in which problems are addressed from multiple perspectives at once. We ask students to consider these problems in the context of the future. What are the technology, social, environmental and political trends, and what will the future look like in 10 or 15 years? We will leave some room for interpretation in the product briefs, so that students can be creative in choosing the solution with the most impact.

Student teams will be given a real product brief in **medical data and personal transport**, of social and economic importance, aligned with areas of university research. They must respond to this brief, producing a working prototype product, business case, and presenting to the expert panel at the end of the program.

## Program duration

22 January to 10 February 2018

- 22 January arrive in Sydney
- 23 January program starts
- 9 February program ends
- 10 February depart from Sydney

## Participants

The Program is open to students from the University of Sydney's partner universities. We welcome postgraduate and undergraduate students from diverse academic backgrounds to apply, including but not limited to engineering, information technologies, science, health, social sciences, business and design.

Participants will work as a group alongside students from other leading Chinese universities with different academic backgrounds and also have the opportunity to interact with University of Sydney student mentors.

## Application

- Interested students should complete and submit the Program Application Form to:  
Ms Chloe Cai, Program Coordinator  
[chloe.cai@sydney.edu.au](mailto:chloe.cai@sydney.edu.au)
- Application closes on **16 October 2017**
- Students will be informed of the decision on their application by **26 October 2017**.

## Selection criteria

- Motivation for participation
- Relevant experience and extracurricular activities
- Being an individual thinker as well as enjoying working in a team
- Commitment including completion of the group pre-work task prior to course commencement

The course will be conducted in English in an intensive form. Although we will not ask for any evidence of a formal English language assessment, an adequate level of English language ability equivalent to IELTS 6.5, TOEFL iBT 79 or above is essential in order to benefit fully from the program.

## Program fee

The program fee of **\$4,276 in Australian dollars** per student covers:

- tuition fees
- field trips
- 19 nights shared accommodation (room only) from 22 January to 10 February 2018
- welcome and farewell lunches
- airport group pick-up on 22 January and transfer on 10 February

*Students who are not able to meet the group pick up and transfer time will need to make their own travel arrangements to the accommodation. Travel instructions will be provided.*

- Opal card for public transport in Sydney
- Certificate of Attendance and Program Assessment Report (transcript) upon successful completion

## Assessment

During the course, students will be assessed on the basis of the pre-work (report), two presentations and program attendance.

### For more information

International Leaders Program  
Office of Global Engagement  
The University of Sydney  
Australia

<http://sydney.edu.au/about-us/partnerships/international-partnerships/international-leaders-program>



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## Preliminary Program Schedule

### Pre-work (Report)

Students are required to work in teams to complete the Pre-work (a short report) on their choice of project. Students must submit their report **by 10<sup>th</sup> January 2018**.

### Week 1

Mon 22 Jan	Tue 23 Jan	Wed 24 Jan	Thur 25 Jan	Fri 26 Jan
Arrive in Sydney	<b>AM</b> <u>Welcome</u> Orientation and course introduction	<b>AM</b> <u>Module</u> Project brief & predicting technology trends	<b>AM</b> <u>Module</u> Ideation and design	Australia Day (Public holiday)
Group pick up and transfer to accommodation	<b>PM</b> University campus facilities tour  <u>Module</u> Australian history, politics and culture	<b>PM</b> <u>Module</u> User research  <u>Group work</u> with USYD mentors	<b>PM</b> <u>Module</u> Project management and teamwork  <u>Group work</u> with USYD mentors	

### Week 2

Mon 29 Jan	Tue 30 Jan	Wed 31 Jan	Thu 1 Feb	Fri 2 Feb
<b>AM</b> <u>1st Presentation</u> Students present their initial research	<b>AM</b> <u>Module</u> Digital Modelling and Fabrication Lab (DMaF): Introduction to 3D modelling and fabrication techniques for rapid prototyping during the early stages of a design process.	<b>Full day</b> <u>Self-study and group work</u> With USYD mentors	<b>AM</b> <u>Module</u> Technology ideas, intellectual property: student presentation	<b>Full day</b> <u>Self-study and group work</u> With USYD mentors
<b>PM</b> <u>Module</u> Complex thinking: Introduction to complex and systems thinking			<b>PM</b> <u>Module</u> Presentation skills  Self-study and group work	

### Week 3

Mon 5 Feb	Tue 6 Feb	Wed 7 Feb	Thu 8 Feb	Fri 9 Feb
<b>AM</b> <u>Module</u> Business case development	<b>AM</b> <u>Group work</u> With USYD mentors	<b>Full day</b> <u>Self-study and group work</u> With USYD mentors	<b>Full day</b> <u>Pitch presentation</u> Group presentation to the expert panel	Cultural activity
<b>PM</b> Self-study and group work	<b>PM</b> <u>Activity</u> With local students		<u>Closing</u> <ul style="list-style-type: none"><li>• Program evaluation</li><li>• Certificate presentation</li><li>• Group photo</li></ul>	
<b>Sat 10 Feb</b>				
Depart Sydney				

**Note:** The above is an example of topics and activities that may be arranged for this program and is subject to change. The final schedule will be distributed to participants prior to program commencement.