



天津大学国际工程师学院  
Tianjin International Engineering Institute

## 天津大学国际工程师学院简介

### Introduction to Tianjin International Engineering Institute

#### 一、学院使命(Mission)

“天津大学国际工程师学院”（Tianjin International Engineering Institute, TIEI）是天津大学拓展工程教育改革的新尝试,是培育适合中国经济社会发展和世界进步的国际工程领域高端人才的摇篮。

Tianjin International Engineering Institute (TIEI), affiliated to Tianjin University, aspires to educate engineering students that will not only serve in the social and economic development in China but also in the world.

#### 二、目标(Objective):

校企紧密合作，共同参与宽基础的工程师培养；校企优势互补，在跨学科的背景下完成科研创新。

Work closely with enterprises to educate engineering students with interdisciplinary knowledge, and to do innovative research.

#### 三、模式(Mode)

TIEI 在教学改革、校企合作和科研组织等方面进行了积极的探索，拟在以下方面取得突破：

After investigation on engineering education reform, cooperation models between schools, enterprises and scientific research organization,

TIEI aims to achieve the following.

- 借鉴法国工程教育模式，注重培养学生实践创新能力，拟在工程人才培养模式改革方面取得突破；

Applying French engineering education system and methodology,

TIEI will focus heavily on students' creativity and practical ability.

- 吸引国内外知名企业共同参与，拟在新型校企合作关系的建立和发展方面取得突破；

Joining hands with prominent enterprises in different sectors in the form of Business Club, TIEI will set up a new model of university-enterprise cooperation.

- 科研活动不再受到学科界限的限制，拟在跨学科背景下科研活动的组织方面取得突破。

Targeting at innovation in scientific research, interdisciplinary organization of activities will be made.

#### 四、专业方向 (Programs)

TIEI 设置了五个专业领域：

TIEI provides five undergraduate programs:

电子与信息系统

生物工程

(Electronic Information System)

(Biological Engineering)

土木工程

计算机科学

水工程

(Civil Engineering)

(Computer Science)

(Water Engineering)

## 五、培养模式（Education Mode）

TIEI 选拔优秀学生，按照法国工程师教育的模式和标准对学生进行培养。通过法国工程师职衔委员会认证（CTI）认证后，学生可在完成工程师教育阶段时，获得天津大学学士学位、硕士学位及 CTI 认证的工程师文凭。为了培养适合国际经济发展的需求学生，TIEI 将同企业一道对课程进行整合，其中四分之一的课程将由企业俱乐部的会员企业讲授。同时，俱乐部的会员企业为学生提供实习岗位和设计性课题，强化学生实践能力和创新能力的培养。

TIEI enrolls outstanding students and educate them in line with the mode and standard of France engineer education. After obtaining CTI authorization and finishing engineer education, students can be conferred with a Bachelor or master's degree from Tianjin University and an Engineer Certificate authorized by CTI. To meet the demands of economic development, TIEI curriculum will be jointly worked out with enterprises, and a quarter of the courses will be taught by representatives from member enterprises. Meanwhile, member enterprises will provide students with internship opportunities and design projects to train their practical and innovation ability.

## 六、校企合作模式（Cooperation Model between Enterprises and Universities）

TIEI 在学校与企业之间建立了一种新型的合作关系，企业不再以点对点的形式与学校某个专业领域开展合作，而是在合作网络内实现校企和企业之间交叉领域的资源共享和优势互补，校企互利关系得到加强。企业俱乐

部和创新研究中心是实现新型合作关系的主要途径。

TIEI will establish a new model of cooperation with companies in that the cooperation is no longer limited to a single and specific field. On the contrary, both sides will share resources and advantages from the beginning to obtain results that are beneficial to both sides. The Business Club and the Innovation Center to be established under TIEI will be the major ways of cooperation in which very strong collaboration will be realized.

### ——企业俱乐部（the Business Club）

企业俱乐部是由学校与国内外知名企业合作共建，企业自愿加入的非盈利性组织，其主要目标是为企业会员储备人力资源，探索企业与院校双轨培养机制，为学校构建人才实战能力培养的平台。

The Business Club is a non-profit organization by TIEI and renowned enterprises at home and abroad in which companies join by application and selection. The partnership aims at educating engineers according to the demand of member businesses, where students learn to accomplish real-life projects.

### ——创新研究中心（the Innovation Center）

创新研究中心是由学校、企业和市政府共同构建，培养学生实践创新能力，促进科研成果转化，培育商机的重要平台。创新研究中心具有以下特点：

The Innovation Center is an important platform jointly built by Tianjin University, Business Club member enterprises and local government where frontier research projects could be done to improve students' practical ability,

come up with result of technological transfer and create new business opportunities. The center will:

- 创新研究中心以学校和企业的研发人员及学生为主体；  
Bring students together research staff from the University and member enterprises.
- 以企业需求和开放式的研究项目为导向；  
Open research projects according to the demand of member enterprises.
- 打破学科和领域的界限，由具有跨学科背景的团队完成创新成果的研发；  
Break the boundaries of subjects and disciplines to achieve innovative research outcome.
- 为企业提供技术支持并培育商机。  
Provide technological support for new business opportunities.
- 创新研究中心以科研项目为载体，向学生提供设计性课题，培养学生实践创新能力，为企业培训研发人员。  
Provide students and research staff from member enterprises with real-life projects to train their practice ability.