

Illinois Institute of Technology
Chicago, U.S.A.
www.iit.edu

Presented by:
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CHICAGO: THE CITY THAT IIT BUILT



3rd largest city in the U.S.

35 miles of lakefront, 15 miles of bathing beaches

552 parks, 46 museums, 7000 restaurants

#1 in the U.S. in manufacturing

#1 in the U.S. in nanotechnology



Our Location

IIT: Illinois Institute of Technology Location: Chicago, Illinois





<http://www.ensea.fr/en/page/fame-program>

Illinois Tech

“A vibrant campus in a global city”

WE ARE ILLINOIS TECH

See Illinois Tech in 106 seconds.



Visit IIT 

WHERE WILL YOU LIVE? »



8 Colleges/Centers/Institutes à I.I.T.

- **Armour College of Engineering and Science**
- **College of Architecture**
- **Lewis College of Human Sciences**
- **Stuart School of Business**
- **Chicago-Kent College of Law**
- **Institute of Design**
- **School of Applied Technology**
- **College of Science**



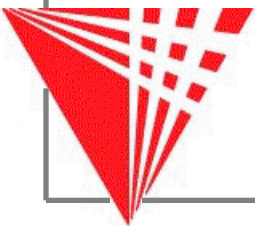
The IIT campus – Winter & Spring





The Campus





IIT SPORTS

Mascot: SCARLET HAWKS





Why Study at IIT

- **National Hub for the « Perfect Grid » & International hub for hybrid-electric vehicles**
- **Location in Chicago – 3rd largest city in the U.S. – job opportunities**
- **Cutting-edge research with 2 world famous labs – Argonne National Lab & Fermi Lab in the Chicagoland area**
- **Possibility to complete a Master's degree in 1 year (12 months) without adding an extra year to your studies**
- **No quotas at the Master's degree level – 9 ch scholarship (\$13,230) offered to those who qualify for admission to IIT – no quota**
- **F1 visa allows students to work for 12 months in the U.S. in their field of study after the degree from IIT, and extend the work possibility to another 24 months if the field is under the STEM category**



Partners

SPAIN:

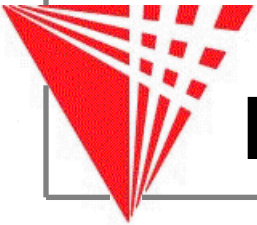
- **Universidad Politecnica de Madrid
(UPM – ETSIT, ETSII, ETSIA, ETSIAE, ETSICCP,
ETSIIInf, ETSAM)**
- **Universidad Politecnica de Catalunya
(UPC – ETSETB, ETSEIB, ETSAB, ETSCCPB,
ETSEEIAT, FME)**
- **Universidad Politecnica de Valencia
(UPV – ETSA, ETSII, ETSIT, ETSICCP &
ETSIAMN)**
- **Universidad de Seville**
- **Universidad Pontificia Comillas, Madrid**
- **EHU Bilbao –Universidad del Pais Vasco (UPV)**



Program Options

Graduate level

- I. Double degree Master's program in 1 year for ETSII, ETSIT, ETSA, Camins & ETSIAMN
- II. Research (TFM) for a period of 6 months or upto 1 year maximum for the above schools



Departments @ IIT

Armour College of Engineering

Dept of Mechanical, Materials & Aerospace Eng (**ETSII-UPV**)

Dept of Biomedical Engineering (**ETSIT, ETSII-UPV**)

Dept of Electrical & Computer Engineering (**ETSIT, ETSII-UPV**)

Dept of Civil, Architectural & Environmental Eng (**ETSA, ETSICCP-UPV**)

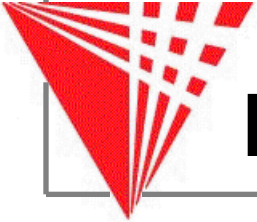
Dept of Chemical & Biological Eng (**ETSII-UPV**)

School of Applied Technology

Dept of Information Technology & Management (**ETSIT, ETSII-UPV**)

Dept of Industrial Technology & Operations (**ETSII-UPV**)

Dept of Food Science & Nutrition (**ETSIAMN-UPV**)



Departments @IIT

College of Science

Dept. Of Physics (M.S. in Applied Physics)** (ETSIT, ETSII-UPV)

CHOICE OF MASTER'S MUST BE PRE-APPROVED BY UPV

**Applied Physics trains engineering students seeking careers in the area of nanotechnology also trains students interested in optics, laser technology, semi-conductors, nuclear energy, nanofabrication, biotechnology



Procedure for the Master's double degree program

- Pre-selected by UPV
 - Year 6 at IIT
- TOEFL min. 90 ibt or IELTS min. 6.5
- GRE general revised exam score minimum for the department
 - Application deadlines:
*Fall semester: April 15, or,
Spring semester: October 15*
- Final decision made by Illinois Tech



OUTCOME

- ✓ 6th year at Illinois Tech
- ✓ Master's in 1 year (12 months)
 - ✓ Includes TFM
 - ✓ 2 degrees
(IIT Master's and UPV Master's equivalent)



MASTER'S DEGREE at IIT - GRADUATE

Master's degree = 30, 32, 33 or 34 credits

(Each course usually equals 3 hours)

i.e. 3 contact hours per week with a professor)

32 credits = ~11 courses

Transfer of credit of 2 courses (validated by IIT)

= less 6 credits

M.S. at IIT in 1 year (2 semesters)

34 - 6 = 28 credits (U.S.)

33 - 6 = 27 credits (U.S.)

32 - 6 = 26 credits (U.S.)

30 - 6 = 24 credits (U.S.)



TOEFL & IELTS

TEST DATES & LOCATIONS IN SPAIN

TOEFL TEST DATES & LOCATIONS IN SPAIN

https://www.ets.org/bin/getprogram.cgi?urlSource=toefl&newRegURL=&test=TOEFL&greClosed=new&greClosedCountry=China&browserType=&toeflType=&redirect=&t_country1=group_Spain

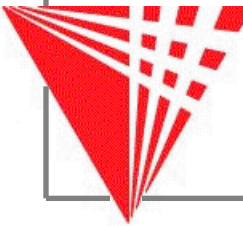
Cost: \$245 - Year 2017 (~208 Euros)

IELTS TEST DATES & LOCATIONS IN SPAIN

<https://www.britishcouncil.es/en/exam/ielts/dates-fees-locations>

Cost: 212 Euros – Year 2017

(~ 250 USD (1.175 USD= 1Euro 10/10/17)



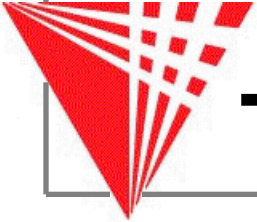
IIT English Proficiency Requirements

IIT English Proficiency Requirements:

<http://admissions.iit.edu/graduate/apply/english-proficiency-requirements>

PESL:

<http://pl.iit.edu/pesl-assessment/faq.pdf>



TOEFL or IELTS & GRE

TOEFL score minimum - 90 ibt

www.toefl.org – (ETS administers this exam)

OR

IELTS – score minimum - 6.5

www.ielts.org(IELTS administers this exam)

AND

GRE revised general (ETS administers this exam)

https://www.ets.org/gre/revised_general/about

Score minimum – per department at IIT

<https://admissions.iit.edu/graduate/apply/gre-requirements>

Must request ETS to send your Official TOEFL and GRE scores directly to IIT Chicago – Institution Code 1918. For IELTS they should send it to Grad Admissions



GRE General MINIMUM Requirements per department at IIT (Master's Level)

admissions.iit.edu/graduate/apply/gre-requirements

Department of Information Tech Mgmt

V+Q = 295 (**151Q; 144V**), A = 3.0

Department of Electrical & Computer Engineering

V+Q= 304 (**159Q**), A = 3.5

Department of Mechanical, Materials & Aerospace Engineering

V+Q = 298 (**151Q**), A = 3.0

Department of Civil, Architectural & Environmental Engineering

V+Q = 292, A = 2.5

Department of Chemical & Biological Engineering

V+Q= 292, A = 2.5

Department Of Computer Science

V+Q= 292/300 , A = 2.5/3.0

Department of Physics

V+Q = 304, A = 2.5

Master of Data Science

V+Q = 304, A= 2.5

GRE General MINIMUM Requirements per department at IIT (Master's Level)

admissions.iit.edu/graduate/apply/gre-requirements

Dept. Of Biology

Q+V = 298, A = 2.5

Dept. Of Chemistry

Q+V= 304, A = 2.5

Dept of Industrial Technology & Operations

Q+V = 292, A = 2.5


Dept. Of Applied Math

Q + V = 304, A = 2.5



New majors for Fall 2018 – Graduate Level

- Master of Energy Systems (30 c.h.) (ETSII, ETSICCP)
<https://engineering.iit.edu/programs/graduate/master-engineering-energy-systems>
- Urban Systems Engineering (ETSII, ETSICCP)
<https://engineering.iit.edu/programs/graduate/master-engineering-urban-systems-engineering>
- Engineering Management (ETSII, ETSIT, ETSICCP)
<https://engineering.iit.edu/programs/graduate/master-engineering-management>
- Master of Engineering in Advance Manufacturing (ETSII)
<https://engineering.iit.edu/programs/graduate/master-engineering-advanced-manufacturing>
- Master of Computational Engineering (ETSIT, ETSII)
<https://engineering.iit.edu/programs/graduate/master-computational-engineering>
- Master of Pharmaceutical Engineering (ETSII)
<https://engineering.iit.edu/programs/graduate/master-pharmaceutical-engineering>



Double Degree (Master's level - GRADUATE)

- ✓ Pre-selection by UPV is required
- ✓ TOEFL 90 iBT minimum or IELTS 6.5 or PTE 63 (**official score**)
admissions.iit.edu/graduate/apply/english-proficiency-requirement
- ✓ GRE general (**request ETS to send your official score directly to IIT Chicago –Institution code 1318**)
admissions.iit.edu/graduate/apply/gre-requirements
- ✓ IIT Graduate International application
<http://admissions.iit.edu/graduate/apply/degree-seeking-checklist>
- ✓ 1 or 2 letter(s) of recommendation (depending on the department)
- ✓ Professional statement
- ✓ Proof of Bachelor's degree equivalent certified in English
- ✓ Transcripts certified in Spanish and in English
- ✓ 1 Copy of the identity page of your passport
- ✓ Recommended deadlines: 15 April (Fall semester) et 15 October (Spring semester) or as early as possible

N.B. IIT makes the final decision. Pre-selection does NOT guarantee admission to IIT



List of some course transfers – UPV

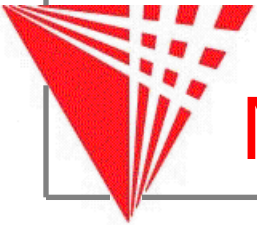
UPValencia:

ETSII-UPV: INTM 502 or 561, MMAE 450, 451, 520, 530 or 532

ETSA-UPV: CAE 521 & CAE 552

N.B: 6 ECTS = 3 U.S. credits = 1 course at IIT

- Can only choose 2 courses successfully passed at UPV that are compatible & similar to 2 courses in the Master's program chosen at IIT



Master's Degree (Engineering/Science)

Example of a 32-credit hour program


24 credits = ~ 7 courses

1 - 5 credits = Research project option

(No. of credits awarded for research is dependent on the department at IIT per the required courses to be completed)

26 credits = Master's degree

N.B. – 1 U.S. credit = ~ 2 ECTS credits



Department of Electrical & Computer Engineering (engineering.iit.edu/ece) (ETSIT, ETSII-UPV)

Master of Science in Electrical Engineering (32 c.h.)

Master of Science in Computer Engineering (32 c.h.)

Master of Science in Electrical & Computer Engineering (32 c.h.)

Master of Biomedical Imaging & Signals (30 c.h.)

Master of Electricity Markets (30 c.h.)

Master of Network Engineering (30 c.h.)

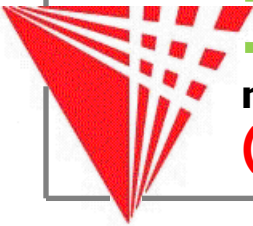
Master of Power Engineering (30 c.h.)

Master of Telecommunications & Software Engineering (30 c.h.)

Master of VLSI & Microelectronics (30 c.h.)

Master of Electrical & Computer Engineering (30 c.h.)

N.B. - This department has a Doctoral program



IIT IFSH-

nutrition/degree-program

(ETSIAMN)

[http://appliedtech.iit.edu/food-science-and-](http://appliedtech.iit.edu/food-science-and-nutrition/degree-program)

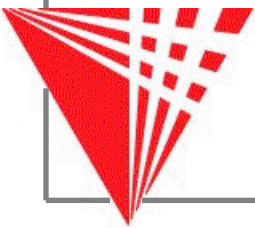
- Master of Food Process Engineering (Non-thesis option with research project)
- Master of Food Safety & Technology (Non-thesis option with research project)

Master of Industrial Technology & Operations (30 c.h.)

Specializations:

- 1. Industrial Facilities**
- 2. Industrial Sustainability**
- 3. Manufacturing Technology**
- 4. Supply Chain Management**

No Ph.D. (Doctoral) program



IIT Department of Information Technology Management (appliedtech.iit.edu/itm) **(ETSIT-UPV)**

1. Master of Cyber Forensics & Security (30 c.h.)

2. Master of Information Technology & Management

(30 c.h.) with Specializations:

- **Web Design**
- Management Information Systems**
- Digital Systems Technology & Mgmt**
- Software Development**
- Computer & Network Security Technologies Management**
- Information Technology Management & Entrepreneurship**
- Web Design & Application Development**
- Systems Analysis**
- Data Center Operations**
- Systems Administration**
- Data**
- Voice & Data Comm Tech**

• **No Ph.D. (Doctoral) program**

Department of Civil, Architectural & Environmental Engineering

(engineering.iit.edu/cae)

(ETSICCP, ETSA-UPV)

➤ Master of :

- Construction Engineering & Management
- Architectural Engineering
- *Geo-technical Engineering – to be modified*
- Structural Engineering
- Transportation Engineering
- Public Works
- Environmental Engineering


N.B. The department has a doctoral program (Ph.D.)



Department of Physics (science.iit.edu/physics)

- **Master of Science in Physics (32 c.h.)
with upto 6 c.h. towards research**
- **Master of Science in Applied Physics (32 c.h.) for those with an engineering background**
- <http://science.iit.edu/programs/graduate/master-science-applied-physics>


N.B. – The department has a Doctoral program (Ph.D. level)



Department of Biomedical Engineering
(engineering.iit.edu/bme)
(ETSIT-UPV)

- **Master of Biomedical Engineering (30 c.h.) (no required research)**

N.B. – The department has a Doctoral program (Ph.D. level)



IIT Department of Chemical & Biological engineering (engineering.iit.edu/chbe) (ETSII-UPV)

➤ **MASTER:**

- **Master of Chemical Engineering (30 c.h.)**
- **Master of Biological Engineering (30 c.h.)**

N.B. The department has a Doctoral program (Ph.D. level)



**IIT Department of Mechanical, Materials &
Aerospace Engineering (engineering.iit.edu/mmae)
(ETSII-UPV applicants)**

- **Master of Engineering (30 c.h.) in:
Mechanical & Aerospace Engineering
Material Science & Engineering
Manufacturing Engineering (1.5 yrs)**

Research Centers

Fluid Dynamic Research Center (fdrc.iit.edu)

**Thermal Processing Technology Center
(mmae.iit.edu/~tpc/)**

N.B. The department has a Doctoral program (Ph.D. level)



Department of Biology

science.iit.edu/biology

M.S. 32 – 34 credit hours with thesis or non-thesis option

- **M.S. in Biology**
- **M.S. in Biology with Biochemistry specialization**
- **M.S. in Biology with Cell & Molecular Biology specialization**
- **M.S. in Biology with Microbiology specialization**
- **M.S. in Biology with Molecular Biochemistry & Biophysics specialization**

N.B. – The department has a Doctoral program (Ph.D. level)



CHOICE OF COURSES AT IIT

IMPORTANT POINTS TO REMEMBER:

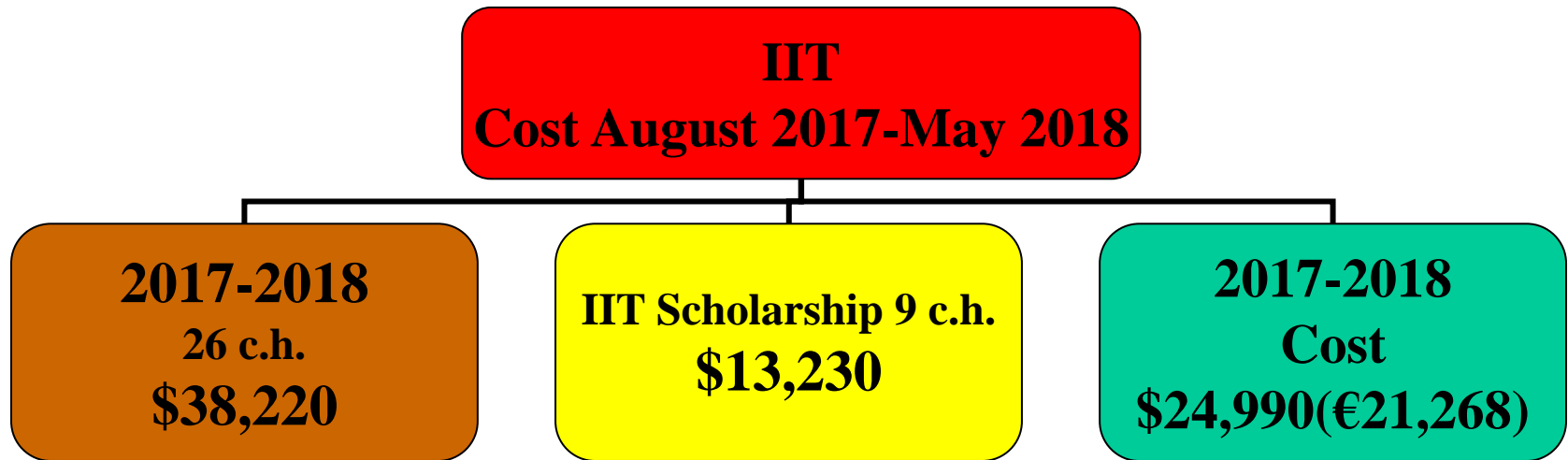
- Not all courses are offered all of the time
- Some courses will be offered once every two years
- Some courses will be offered once every year
- Some courses will be offered each semester
- Some courses may not be offered/opened if there are less than 10 students registered for the courses

What you should do:

- Regarding electives, discuss with your professor at your home university, the elective courses you will need to take for validation & alternatives & submit only once admitted
- In this case, it is imperative that once selected, you submit complete documents to IIT for an early decision well before

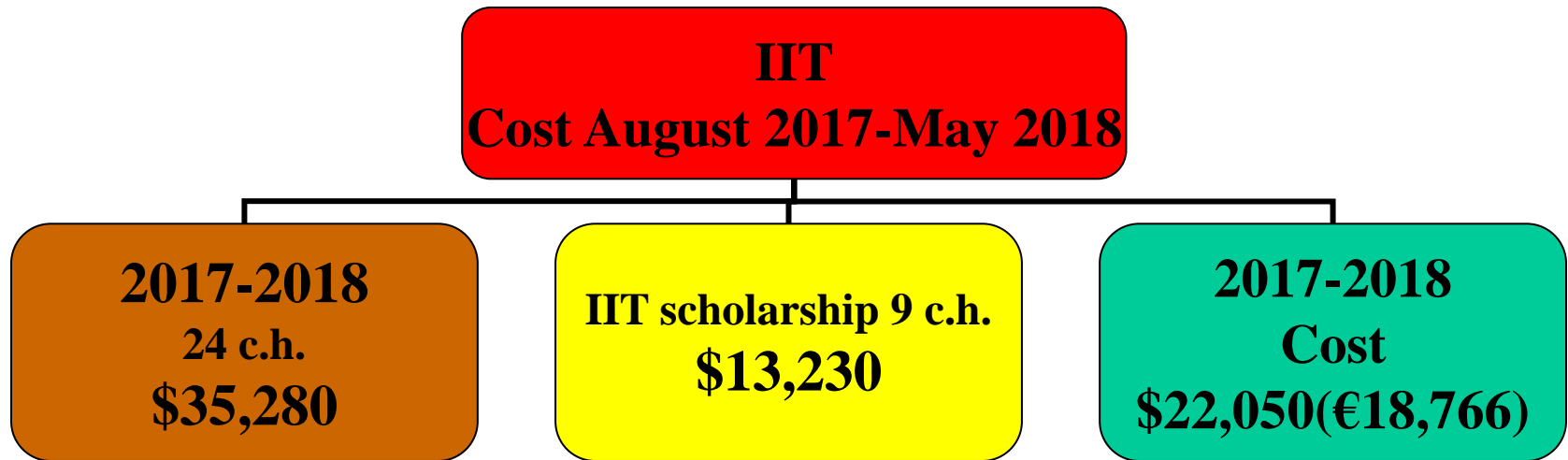



IIT Master's degree -32 credits (ECE/CS/Physics) – IIT Cost – August 2017 – May 2018





IIT Master's Degree (30 credits) **(ITM/Biomedical Eng/MMAE/INTM)** **Cost – August 2017 – May 2018**





Other Fees(2017-2018) (Engineering/Science/Tech)

August 2017 – May 2018 (9 months)

Insurance (Health)	\$1,441
Service Fee	\$864
U-Pass (Transport)	\$270
Activity Fee	\$250
New Student Fee	\$250 (one time only)
Graduation Fee	\$331 (one time only)
Total	\$3,406 (1 an ~ €2,899)

Update on Feb/March 2018 for Aug 2018-May 2019):

<https://web.iit.edu/student-accounting/tuition-fees/current-tuition/main-campus-graduate>

Exchange rate: 1.175 USD = 1 Euro (Oct.17, 2017)



Academic Calendar

Fall Semester

Mid-August – mid-December

(Recommended deadline – 15 April)

* * * * *

Spring Semester

Mid-January – mid-May

(Recommended deadline – 15 October)

Web.iit.edu/registrar/academic-calendar



The benefits

New car = €24,000

Rolls out of the garage =

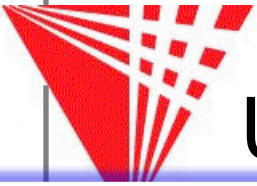
Value reduced by -20%



Master's d'IIT : €24,000

**Graduate from IIT = Salary:
€53,000 (+30% aux US)**





UPON GRADUATION - POSSIBILITIES

- ❖ Work in the U.S. under F1 OPT for 12 months
- ❖ Possible extension if STEM-related to 24 months in addition under OPT
- ❖ Median salary : 64,000 USD (55,000 Euros) according to specialization
 - ❖ PhD. (Doctorate) in the U.S. or elsewhere
 - ❖ Work in Europe or elsewhere



Average annual salary in the U.S.

<http://www.mastersportal.eu/articles/1609/from-novice-to-chief-engineer-6-best-paying-careers-for-engineering-graduates-in-the-us.html>

ELECTRICAL ENGINEERING AVG ANNUAL SALARY =
96,000 USD

COMPUTER ENGINEERING AVG ANNUAL SALARY =
110,000 USD

MECHANICAL ENGINEERING AVG ANNUAL SALARY =
87,000 USD

ENVIRONMENTAL ENGINEERING AVG ANNUAL SALARY
= 96,000 USD

CHEMICAL ENGINEERING AVG ANNUAL SALARY =
96,000 USD

CIVIL ENGINEERING AVG ANNUAL SALARY = 96,000
USD



IIT Alums in Chicago

Profesionales Espanoles en Chicago (PEC)

Javier Perez –javierptg@gmail.com

Sergio Perez – serpear@gmail.com

<https://www.pec-network.com/about-pec>



Testimony from an alum Mr. Javier Perez, of ETSII-UPM & IIT (IIT-MMAE 2008)

Was it worth it?

"Absolutely! The experience is worth the cost a compensation point of view as well as a personal endeavor Without the IIT, I would have not been able to work in the USA"

Would you recommend this experience to others & why?
The job market is a very competitive one. You need to be able to differentiate yourself. Coming to study in the USA gives you that differentiation"

Salary range: first year 50+ 10K; 3rd yr: 65 +10K

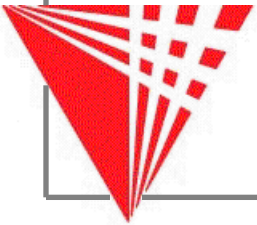
"After F1 OPT, and then several H1bs, I got my green card last year, 9 years after I arrived in the USA"

Current job position: Senior Associate for Strategy



Program II – Research - PROCEDURE

- Selected by school – name submitted to IIT Europe
- Send required docs (certified copy of transcript in english only, 2 letters of recommendation, CV, copy of the name page of passport, certified letter of proof of intermediate level in English or official & valid TOEFL/IELTS score & a professional statement – identify three professors in one department at IIT, with whom you would like to work), proof of Bachelor’s degree in English, VIA EMAIL to IIT France office
- IIT Europe will distribute the dossier to the 3 professors you are asked to identify within 1 department at IIT Chicago
- MUST CHOOSE ONLY ONE DEPARTMENT AT IIT
- IF APPROVED BY THE PROFESSOR AT IIT, IIT Europe OFFICE will inform you, after which you will send your certified transcripts in the native language and english, and the Financial support form IN ORIGINAL BY POST, directly to the Department coordinator at IIT.
You will be informed where to send the documents once approved.
- **DO NOT SEND ANY DOCUMENTS TO THE GRADUATE ADMISSION OFFICE NOR TO THE PROFESSORS, AS THEY DO NOT PROCESS RESEARCH APPLICANTS**



- Application deadlines:
 - *Spring: Nov 1: Fall: Feb 15*
 - Pre-selection by UPValencia
 - NO TOEFL nor GRE required
 - Research period: 6 months
 - Registration fee at IIT for 3 credits (4,410 USD)
(August 2017-May 2018 cost)



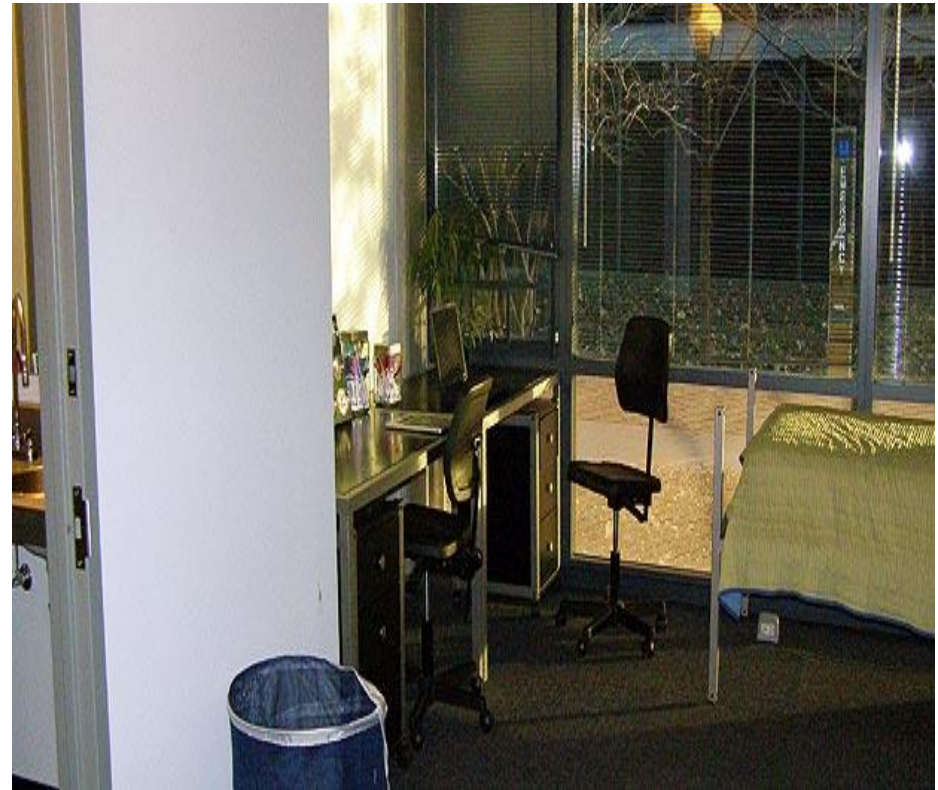
Some Research Centers @ IIT

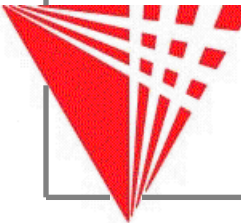
- **Ubiquitous Security & Privacy Research Lab**
- **Electric Power & Power Electronic Center**
- **Future Networking Research lab**
- **Computational Design & Manufacturing Lab**
- **Medical Imaging Research Center**
- **Embedded Capacity & Signal Processing Research**
- **Electric Drives & Energy Conversion La**
- **Fluid Dynamics Research center**
National Center of Excellence
- **Thermal Processing Technology Center**
- **Advanced Thermal & Environmental Systems Research Lab –(ATESR)**
- **Robotics Lab**
- **Wanger Institute for Sustainable Energy Research**
- **Particle Test & Crystallization Center**
- **Robert W. Galvin Center for Electricity Innovation**

On-campus Housing @ IIT Gunsaulus Hall



On-campus Housing – State Street Village (SSV) designed by Helmut Jahn





On-campus Housing @ IIT McCormick Student Village





HOUSING - IIT August 2017-May 2018)

ROOM FEES:

https://web.iit.edu/sites/web/files/departments/housing/pdfs/HousingRnB_2016-17%20x2.pdf

BOARD (MEALS) FEES:

<https://web.iit.edu/sites/web/files/departments/housing/pdfs/2016-2017%20Board%20Rate%20Sheet.pdf>



HOUSING – IN CHICAGO

In the city : ~ min. \$1,000 on average (€426 - shared) or €852 (studio) – meals not included

Exchange rate: 1 Euro = 1.175 USD (Oct. 17, 2017)



Your journey to Illinois Tech begins!





Illinois Institute of Technology

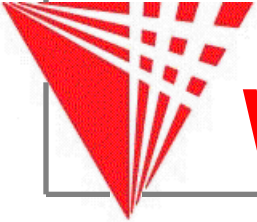
For further information:

Dr. Misquita

iitparis@aol.com

Attention:

Please check the IIT website and the weblinks provided for any changes and/or updates that are likely to occur



Websites

ARMOUR COLLEGE OF ENGINEERING

engineering.iit.edu

COLLEGE OF SCIENCE

science.iit.edu

STUART SCHOOL OF BUSINESS

www.stuart.iit.edu

SCHOOL OF APPLIED TECHNOLOGY

appliedtech.iit.edu



Statistics

- **Undergraduates** **2,858**
- **Master's** **3, 253**
- **PhD's** **615**
- **J.D.'s** **888**
- **Non-degree** **236**

Total **7,850**



Other statistics

70.4% male

29.6 % female

12:1 student to faculty ratio

59% international students

\$60 million in research per year



Illinois Institute of Technology

**Member of the Association of Independent
Technological Universities**

www.theaitu.org (22 membres)

I.I.T.

Carnegie-Mellon

CalTech

M.I.T.

Case Western Reserve ...

MISSION OF THE AITU:

- **Recruiting the best and the brightest to member schools by promoting the liberating experiences and rewarding careers that a technology-oriented education offers; and**
- **Fostering and advancing excellence in engineering, science and professional education from K-12 onward.**
- **Sharing ideas and best practices to advance and inspire creativity, innovation and entrepreneurship within the membership**

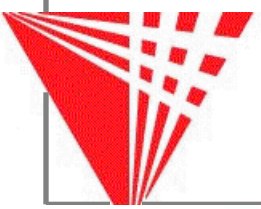


Motto of IIT



ILLINOIS INSTITUTE
OF TECHNOLOGY

Transforming Lives. Inventing the Future.

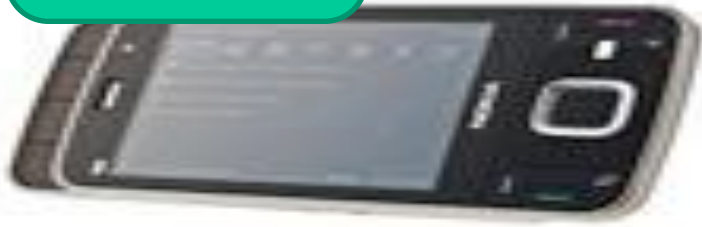


MAJOR IIT INVENTIONS BY ILLINOIS TECH'S ALUMNAE



BAR CODE
PRINTER
IIT
alumnus
Ed Kaplan

CELL PHONE
IIT alumnus
Marty Cooper



Magnetic tape data storage

MAGNETIC TAPE
IIT Alumnus
Marvin Camras





Marvin Camras (Alumnus of IIT)

IIT B.S. EE 1940; M.S. EE 1942
Inventor - Magnetic Tape

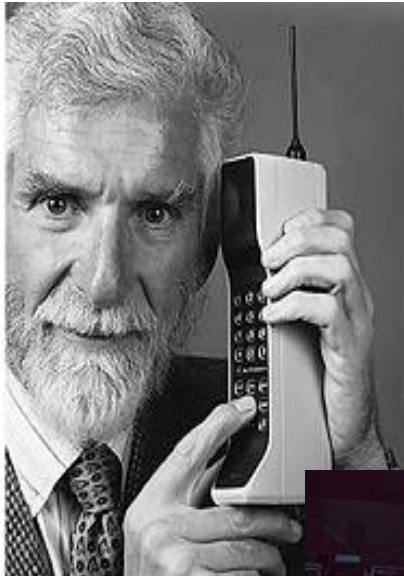
Born in Chicago in 1916, Camras was known to his family as an "inventor" by the age of five

In the late 1930s, Camras was studying electrical engineering at the Armour Institute of Technology (now **the Illinois Institute of Technology).**

- **Camras spent a fifty-year career at Illinois Institute of Technology, where he taught until 1994.**
- **By the time of his death in 1995, he had earned over 500 US and international patents for his work. He was inducted into the National Inventors Hall of Fame in 1985, and in 1990 he won the National Medal of Technology.**



Marty Cooper (Alumnus of IIT (B.S. EE 1950; M.S. EE 1957) Inventor – Cell Phone



**1st Cell Phone – 1973
(« The Brick ») –weighed
2.5 pounds!!**

**Named one of the best
inventors of all time for his
work on the first personal
cell phone in the "Best
Inventions of the Year"
article in the October 30
Time Magazine 2007**

2nd invention – A new wireless

**Internet system called
iBURST**

**that puts high-speed data
transmission at your
fingertips!!**



Ed Kaplan (Alumnus of IIT) (B.S. ME 1965) Inventor of the Bar Code printer

- **CEO and Chairman, Zebra Technologies**
- **Ed Kaplan, one of Chicago's most successful technology entrepreneurs, studied at IIT, where he graduated with a bachelor's in mechanical engineering**
- **At 26 years old, Kaplan he co-invented the **Bar Code printer** called the « **Zebra** » and also created the first thermal transfer printer to print barcodes directly on products**