# GRADUATE STUDIES

**December 8, 2017**

DEPARTMENT OF
ELECTRICAL &
COMPUTER ENGINEERING

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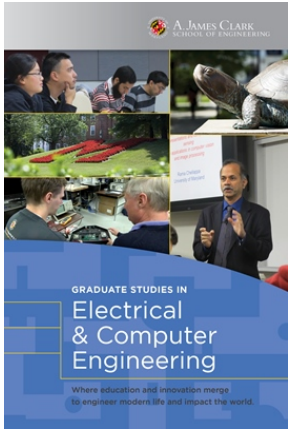
# Market Analysis

**Compared admission and enrollment details with our peer institutions and other BIG10 universities to ensure we are competitively aligned.**

**Actions Taken**

- **Revamped Financial Offers**
- **Adjusted Priority Deadline from Dec. 1 to Dec. 16**
- **Waived Ph.D. Application Fee**
- **Increased Recruitment Efforts**
  - New brochure
  - Virtual emphasis




New ECE Brochure

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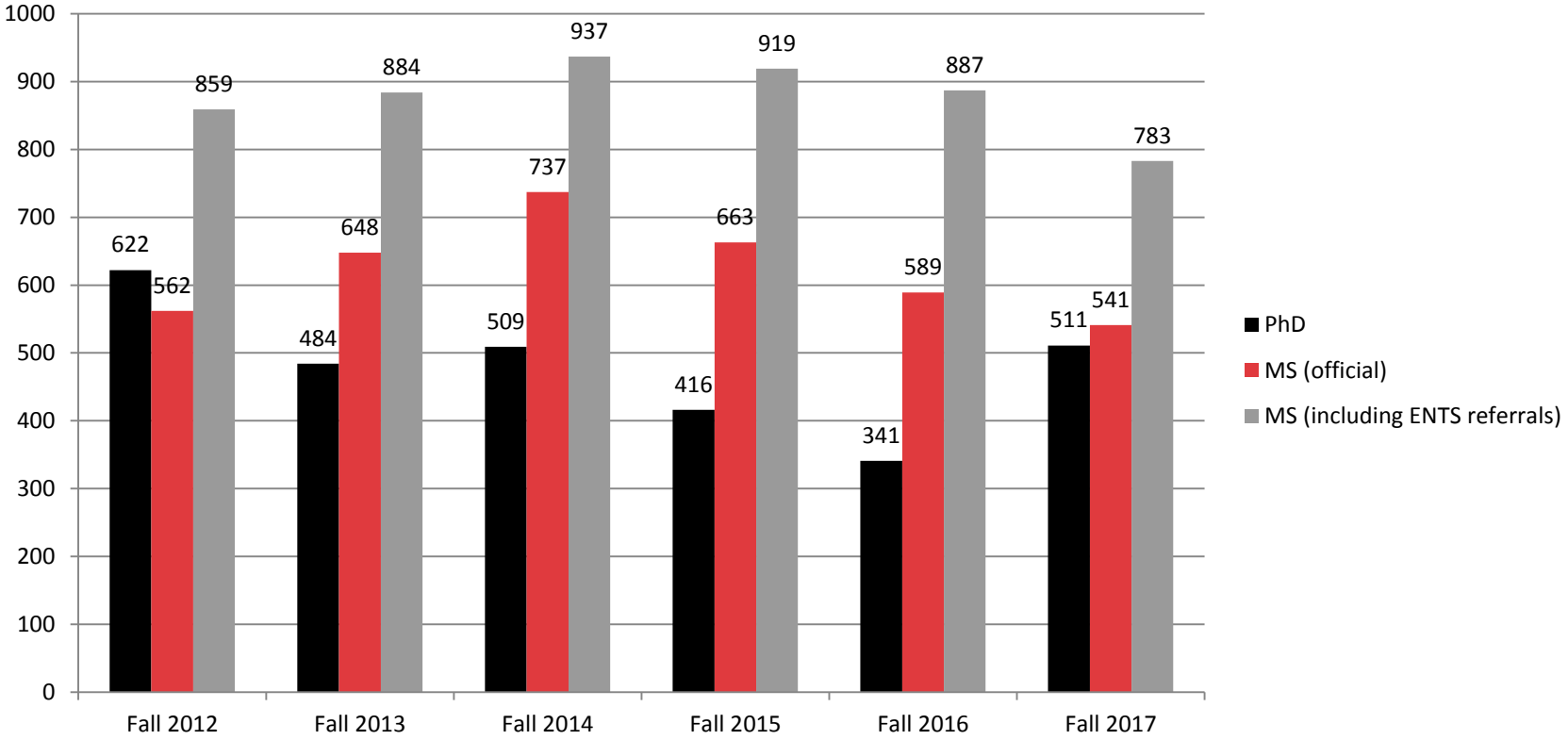
# MS, PhD Applications



# Continue Multi-Year Financial Offers

| | GSR |
|---|---|
| Year 1 | Fellow/Half-GRA |
| Year 2 | GRA |
| Year 3 | GRA or GTA |
| Year 4 | GRA or GTA |

| | GST |
|---|---|
| Year 1 | Fellow/Half-GTA |
| Year 2 | GRA or GTA |
| Year 3 | GRA or GTA |

| | GTA |
|---|---|
| Year 1 | GTA |
| Year 2 | GRA or GTA |

- Fellowship offer with matching support **(GSR)** can be a **three-year** guaranteed offer or **four-year** offer if advisor commits year two GRA support.
- Fellowship offer without matching support **(GST)** is a **three-year** guaranteed offer.
- Teaching assistantship **(GTA)** is a **two-year** guaranteed offer.

# Financial Offers

## Total PhD Offers

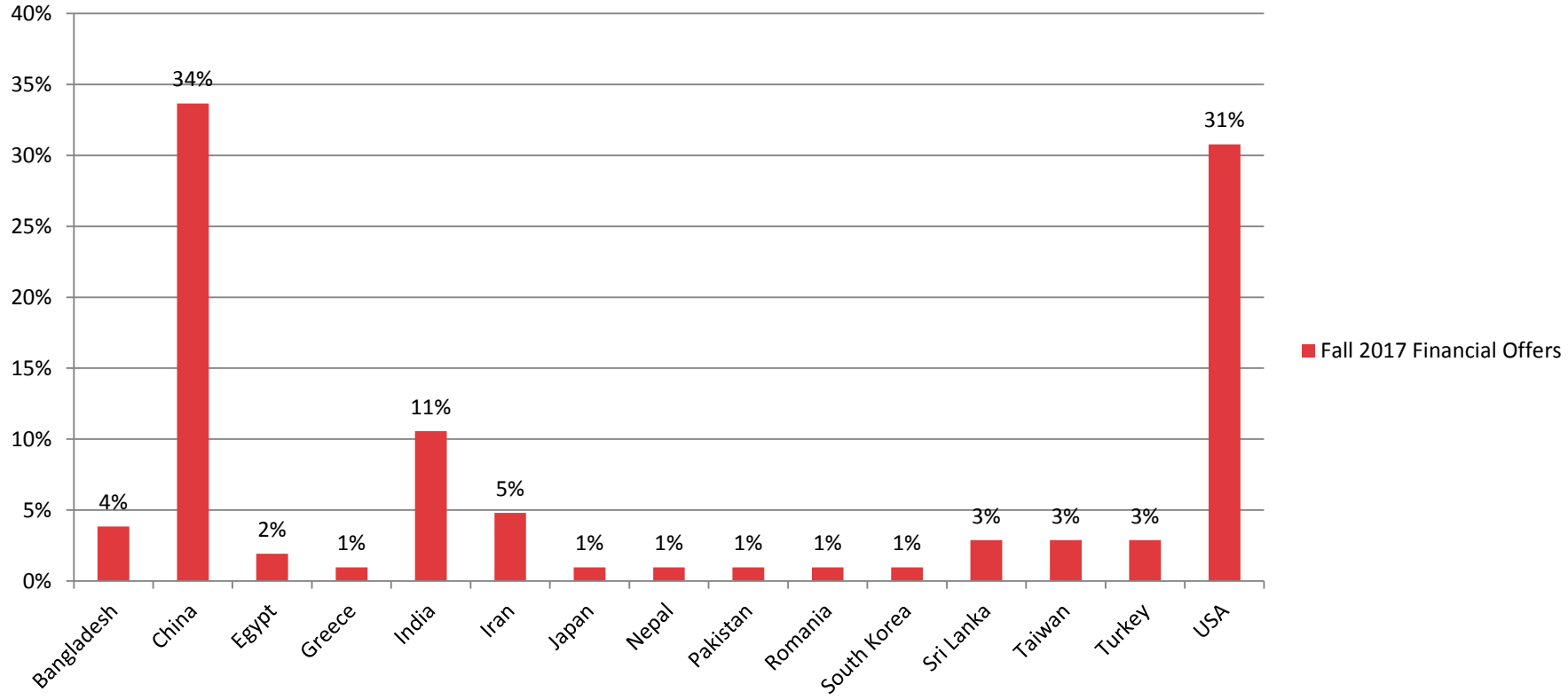
| | 1508 | 1608 | 1708 |
|---|---|---|---|
| Offers Made | 112 | 91 | 104 |
| Accepted | 37 | 35 | 34 |
| Yield | 33% | 38% | 33% |

## Offers with Matching GRA Support

| | 1508 | 1608 | 1708 |
|---|---|---|---|
| Offers Made | 37 | 30 | 30 |
| Accepted | 16 | 13 | 9 |
| Yield | 43% | 43% | 30% |

# Country

## Fall 2017 Financial Offers



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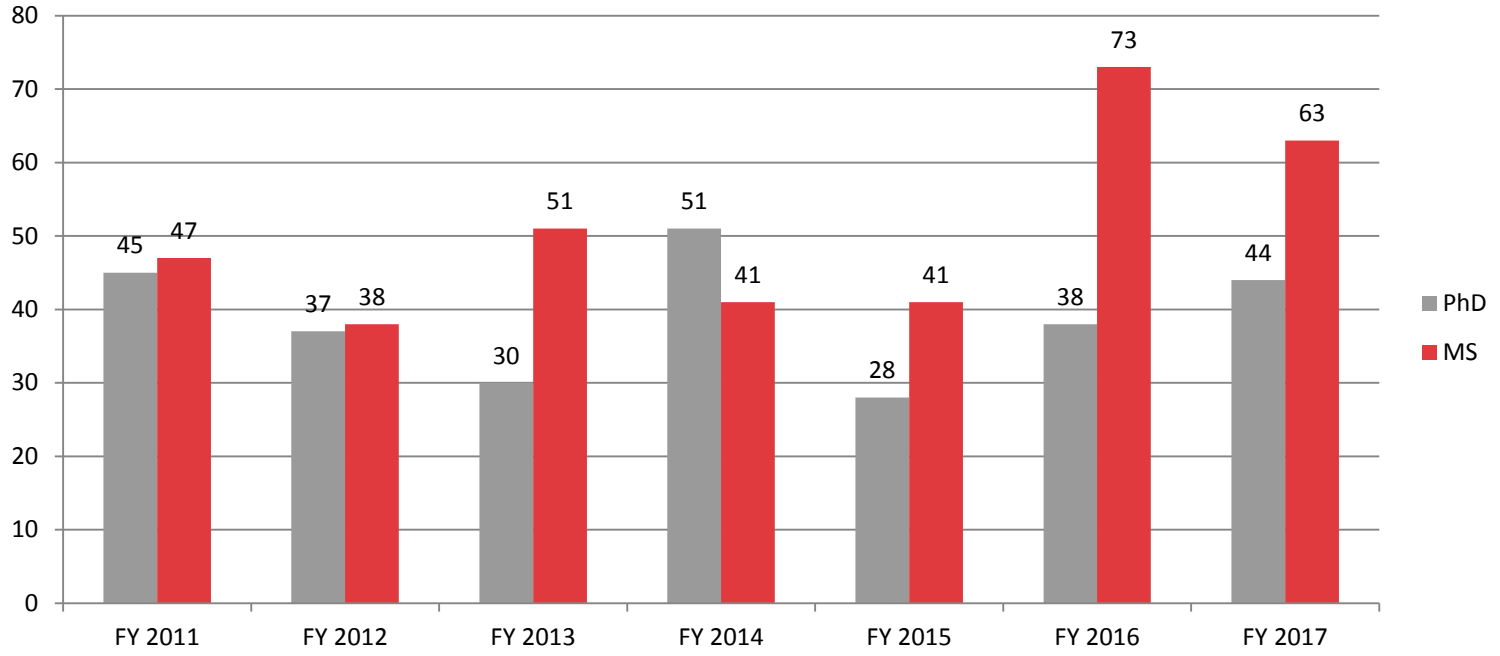
# Degrees Granted



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# ECE Distinguished Dissertation Award

**Abbas Kazemipour**
Nonlinear Dynamical Models for Compressive Projection Microscopy: Theory and Practice
Co-advised by Profs. Wu and Babadi

**V. Praneeth Boda**
Sampling Rate Distortion
Advised by Prof. Narayan

**Chongxi Bao**
Hardware Attacks and Mitigation Techniques
Advised by Prof. Srivastava

**Ahmed Arafa**
Energy Harvesting Communication Networks with System Costs
Advised by Prof. Ulukus

**Andrew Berkovich**
Biologically Inspired Low-Light CMOS Vision Systems
Advised by Prof. Abshire

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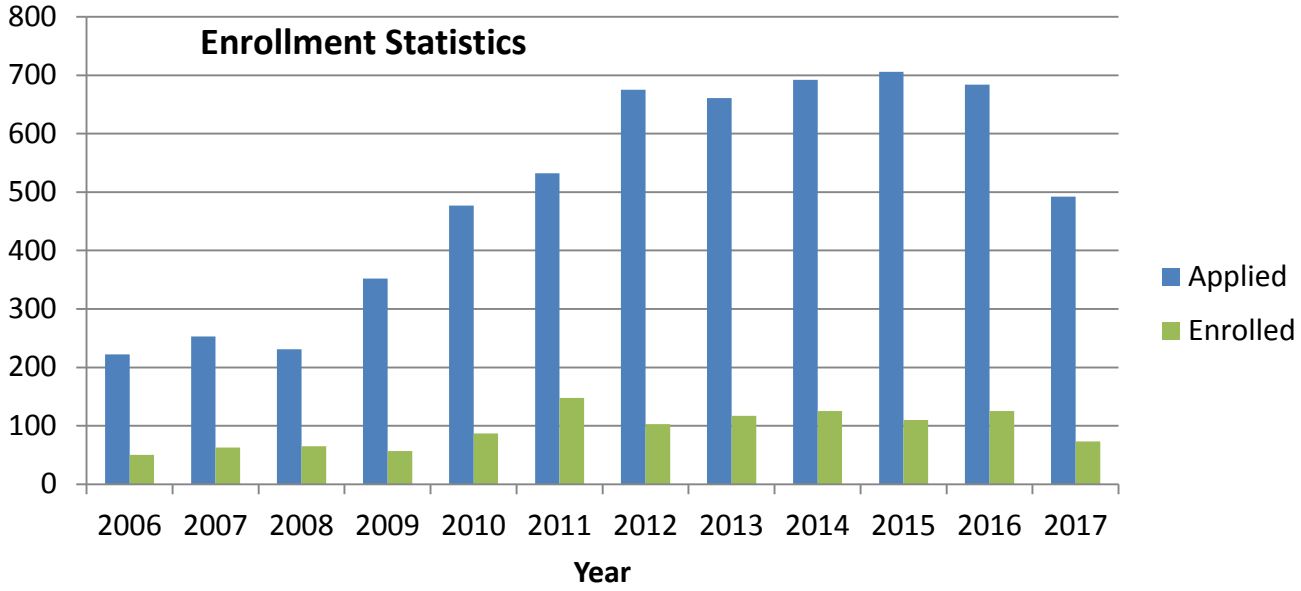
# MS in Telecommunications




**Fall 2017:**
231 direct applicants.

**Fall 2016:**
344 direct applicants.

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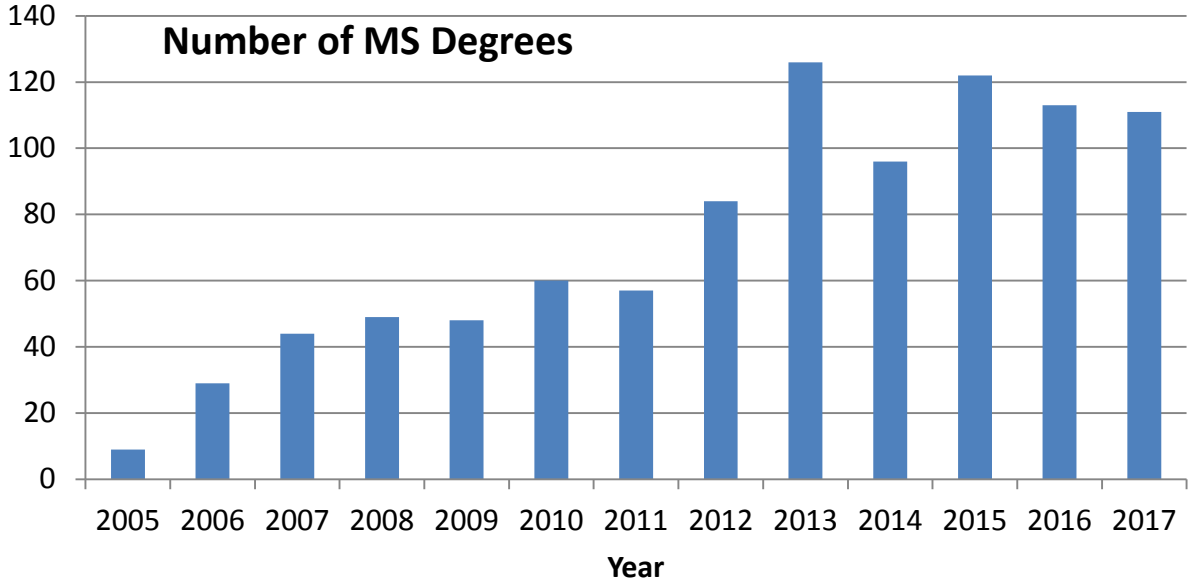
# Degrees Awarded




**Recent graduation stats:**

**Spring 2016:**
- **98** MS degrees awarded

**Summer 2016:**
- **4** MS degrees awarded

**Fall 2016:**
- **11** MS degrees awarded

**Spring 2017:**
- **100** MS degrees awarded

**Fall 2017:**
- **11** MS degrees awarded

# New Initiatives

## Elective/special topics courses

- Machine Learning
- Embedded Systems
- Network Protocol Testing Lab
- Software Defined Networking

## Certificate Programs

Approval process:

- Approved by UMD Board of Regents:
  - Computer Networking
- Approved by UMD Senate PCC:
  - Computing Systems
  - Networking Software Development
  - Wireless Communications