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2018-06-04

Information Literacy Needs of Engineering Grad Students

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https://dx.doi.org/10.7302/3166

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Information Literacy Needs of Engineering Grad Students

SURVEY RESULTS

YOUR ENGINEERING LIBRARIANS:
Leena Lalwani, Paul Grochowski, Jamie Niehof

Public Services Communication Forum | 4 June 2018

WHY CONDUCT THIS SURVEY?

- How are we currently covering Information Literacy?
  - Mostly departmental orientations
  - One-off seminar classes

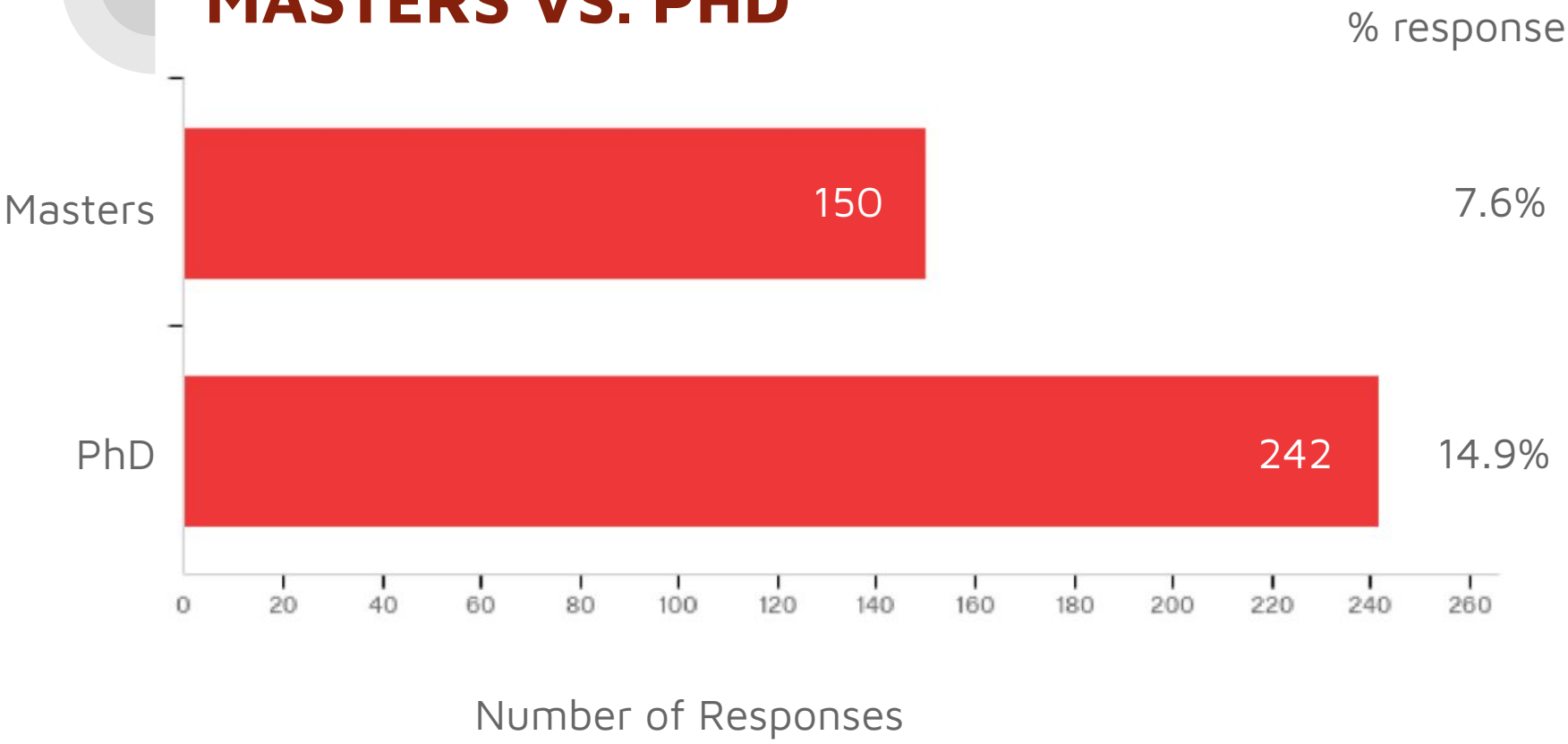
- What will we learn from the survey?
  - Information about student knowledge
  - Discover student needs
  - Information on what resources we will need to satisfy this demand

SURVEY LOGISTICS

- Survey Dates: November 6th - 28th, 2017
- Email sent to departmental graduate student groups
- 392 responses / 3,637 CoE graduate student enrollment (10.7% response rate)
- CoE graduate population is 27% of total UM graduate population

  (CoE = 3,637 / UM = 13,415)
- Link to the survey questions: goo.gl/cMnMFd

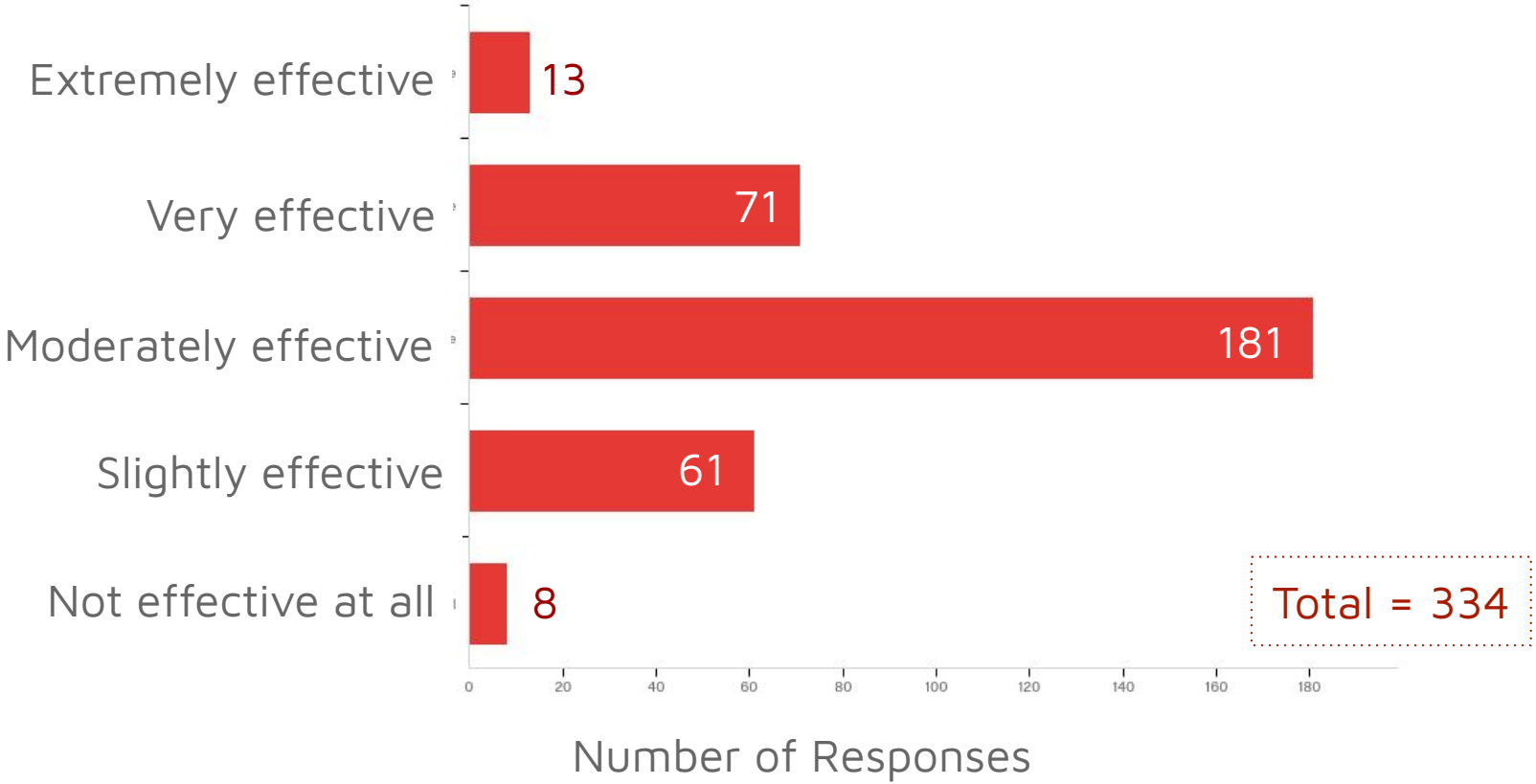
MASTERS VS. PHD



DEPARTMENT BREAKDOWN

Electrical Eng + Computer Science	82
Mechanical Engineering	68
Civil + Environmental Engineering	38
Aerospace Engineering	32
Materials Science + Engineering	32
Industrial + Operations Engineering	29
Biomedical Engineering	26
Chemical Engineering	26
Integrative Systems + Design	24
Climate + Space Sciences Engineering	15
Nuclear Eng + Radiological Sciences	14
Naval Architecture + Marine Engineering	3
Interdisciplinary Graduate Programs	3

How effective are you at literature reviews?



What databases do you search?

Google Scholar — 305

Web of Science — 99

Scopus — 61

PubMed — 49

Other — 46

Eng Village INSPEC — 13

Eng Village Compendex — 13

OTHER:

"whatever lib.umich.edu offers"

IEEExplore

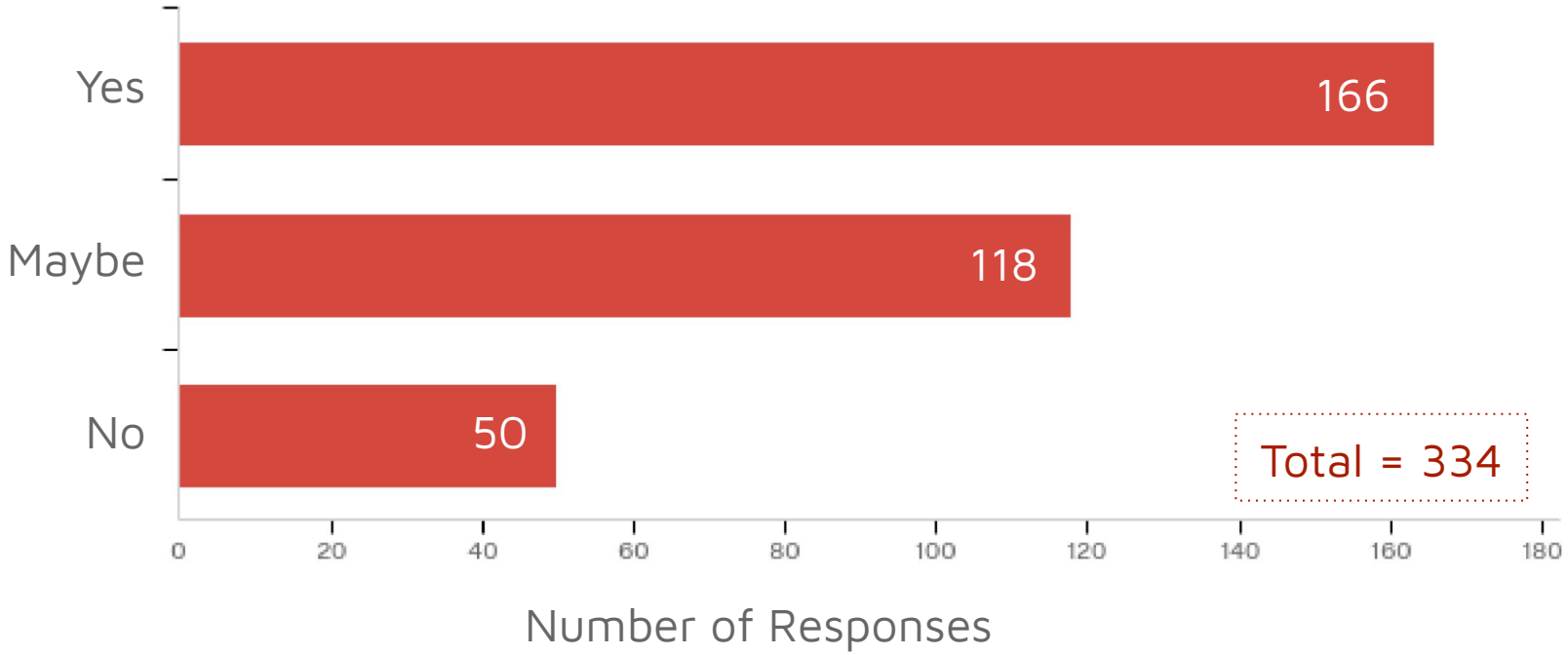
ACM Digital Library

MIRLYN (library's online catalog)

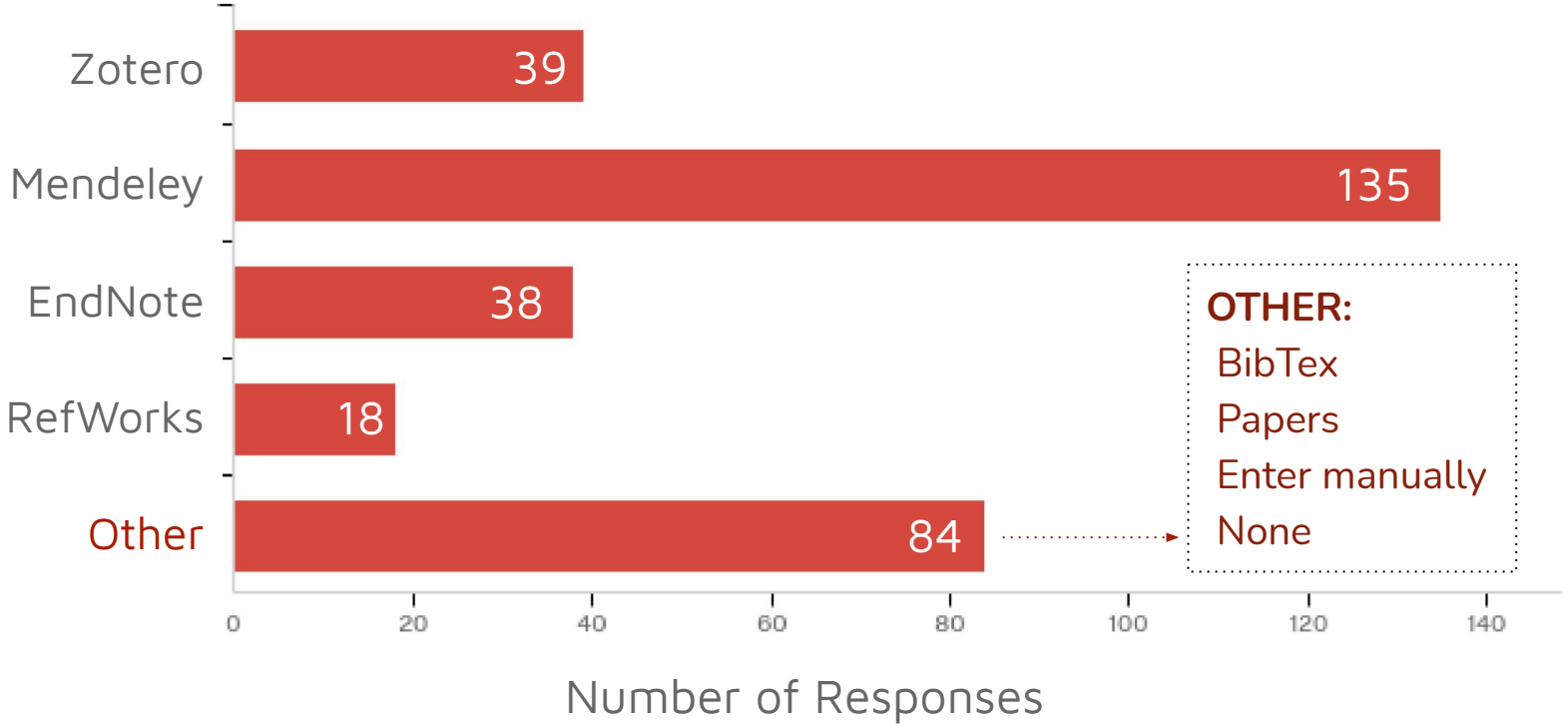
ScienceDirect

Summon

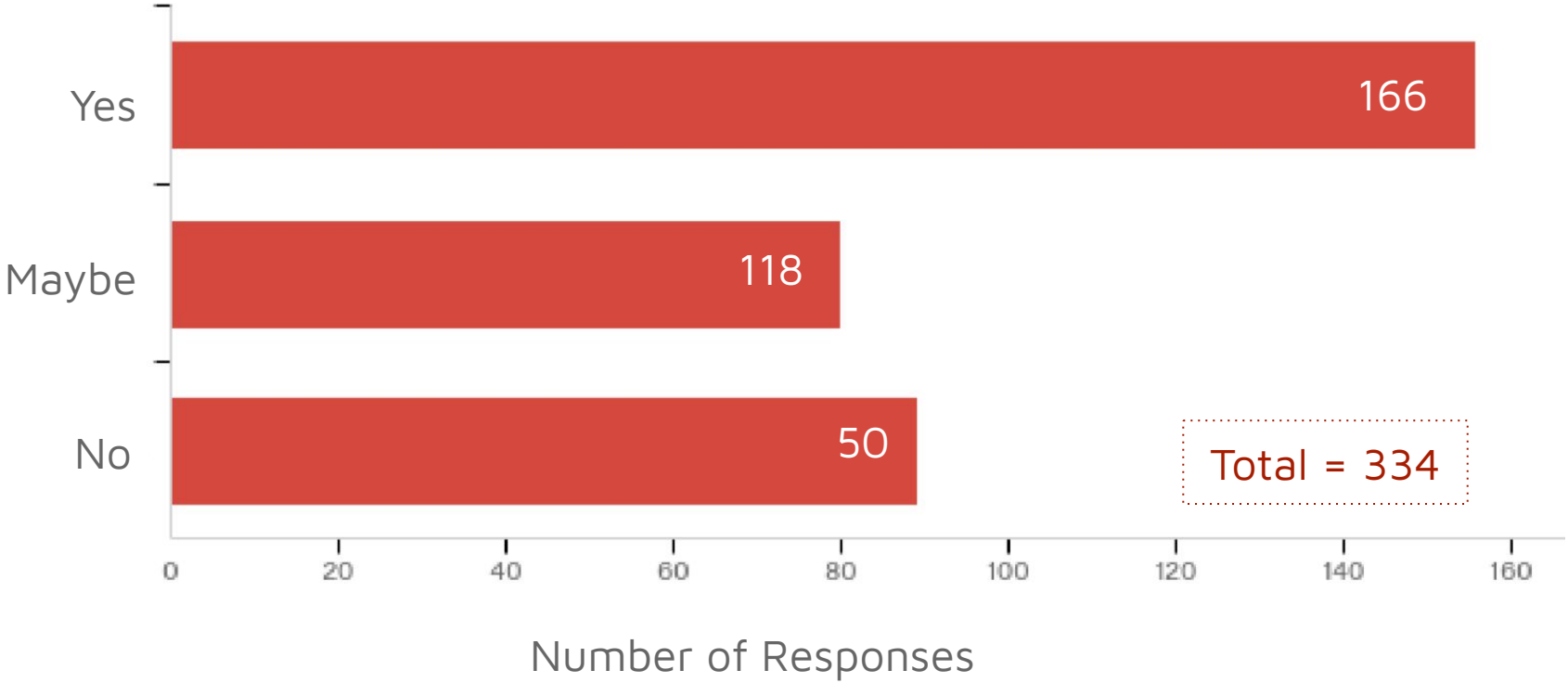
Want training in searching for literature?



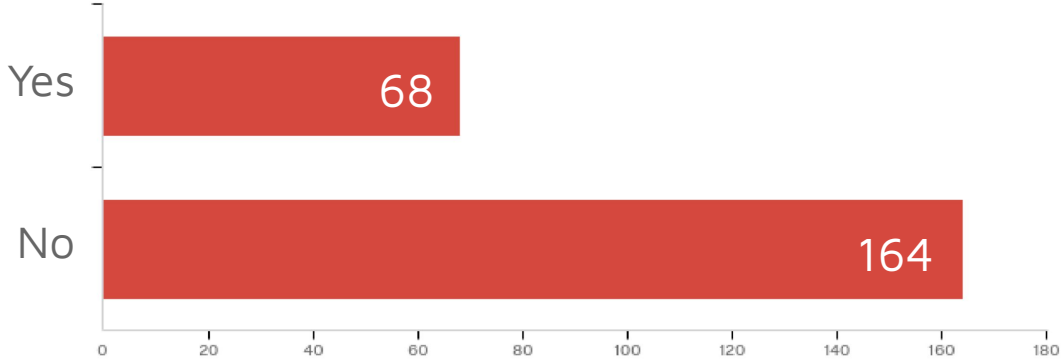
What do you use for citation management?



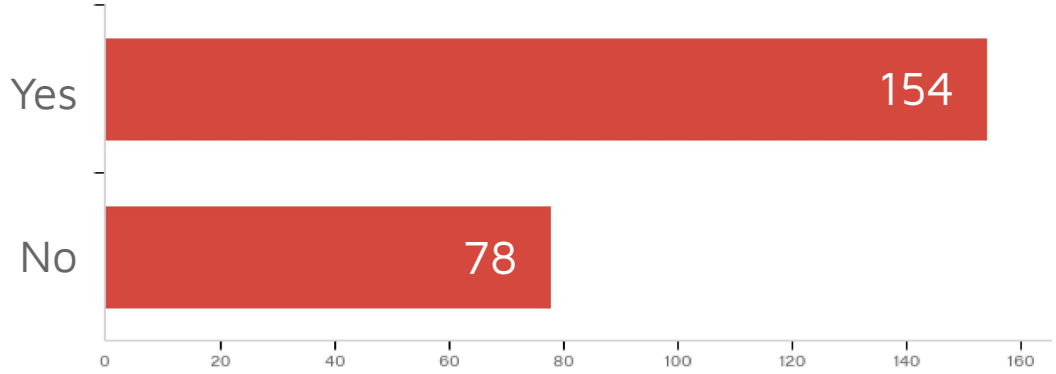
Want training in citation managers?



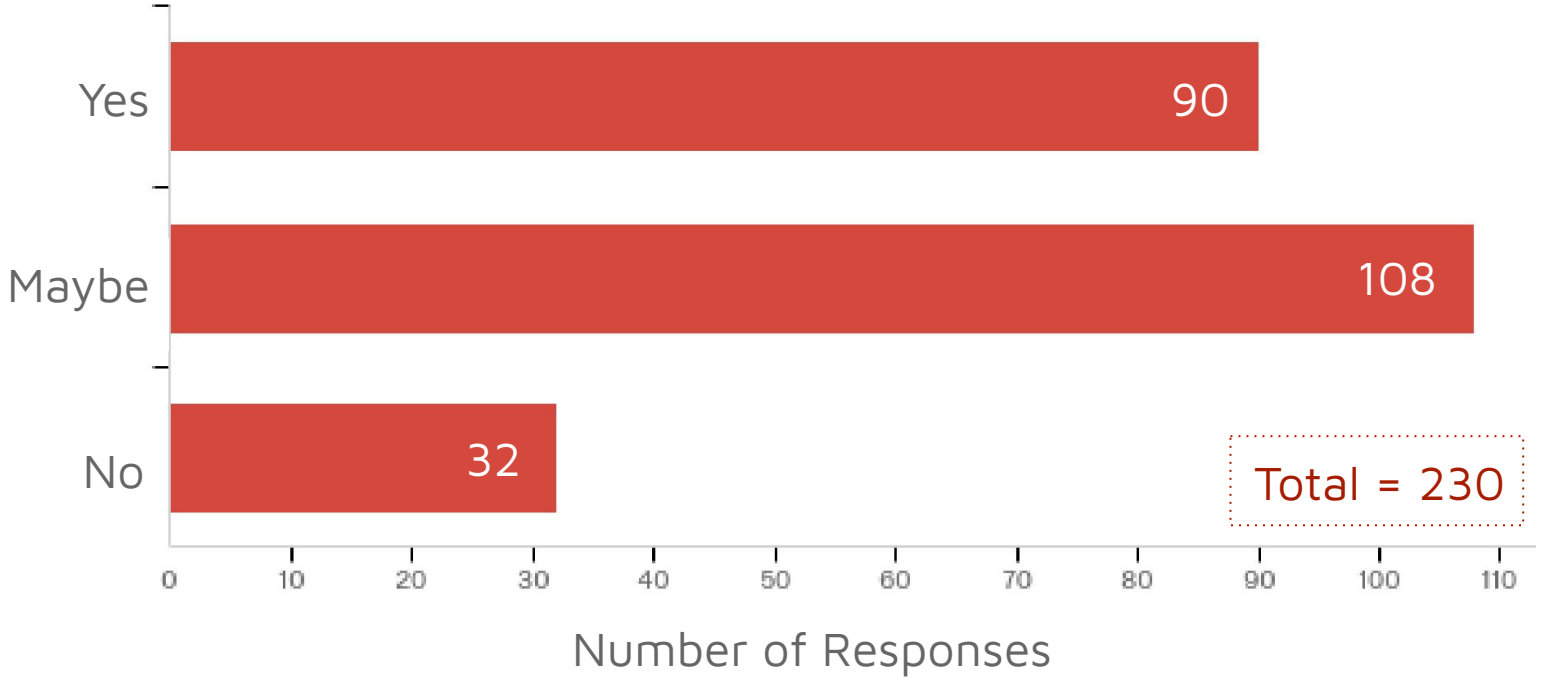
Need to find funding for your research?



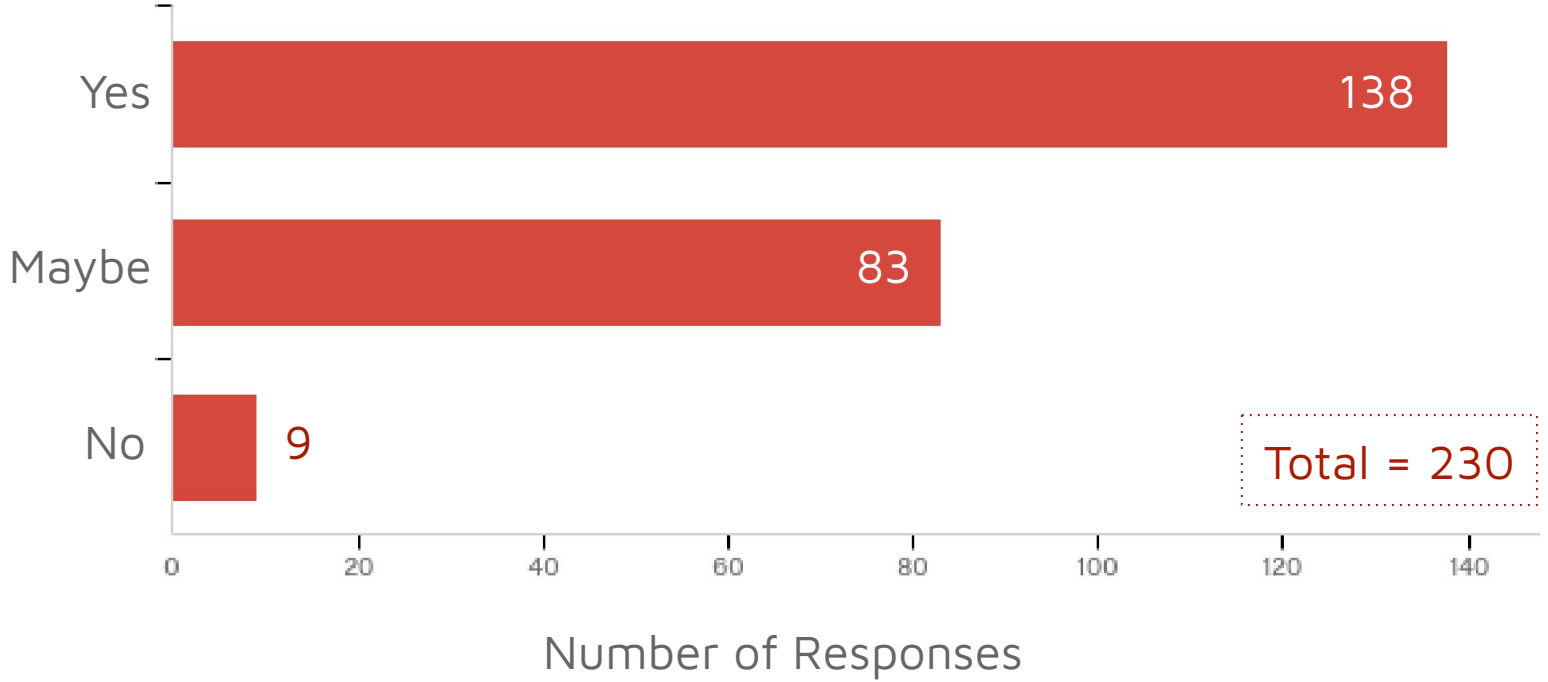
Want training in finding funding?



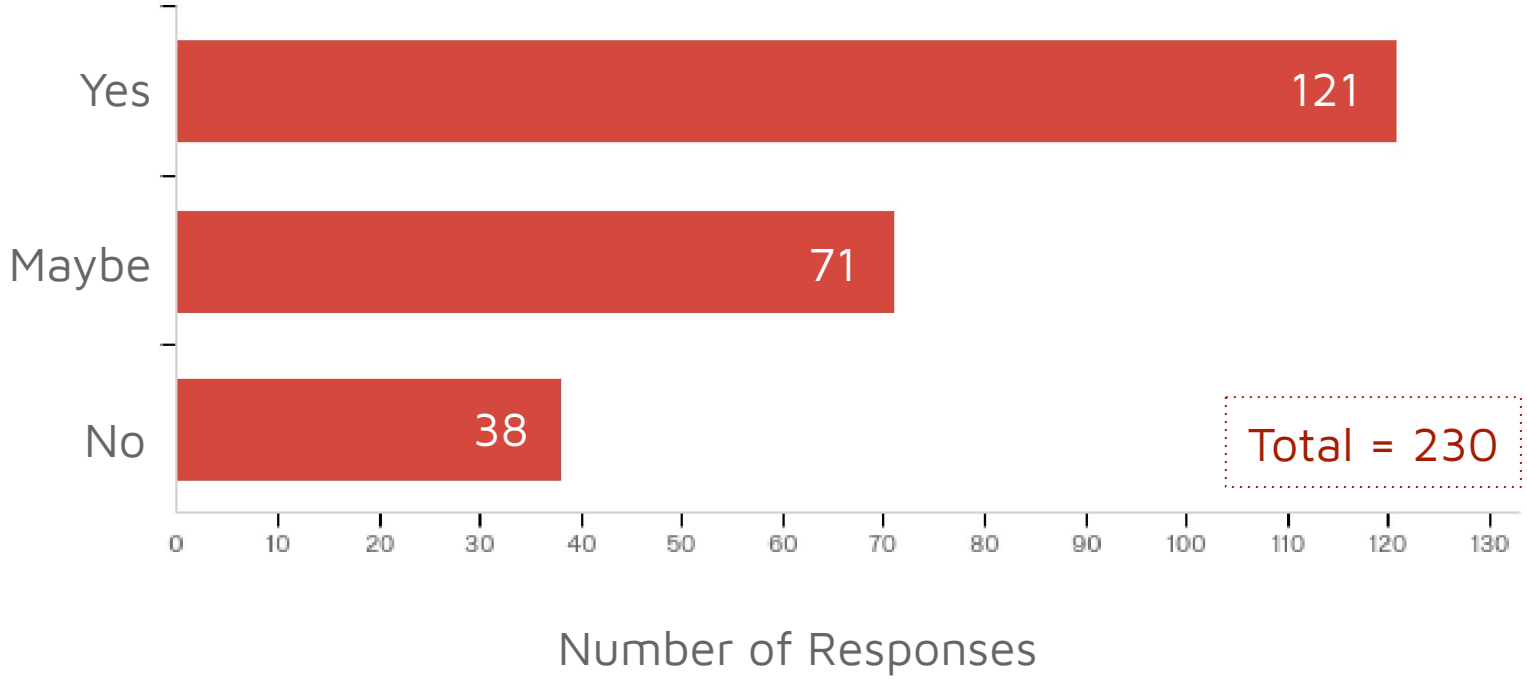
Confident your research data is saved appropriately?



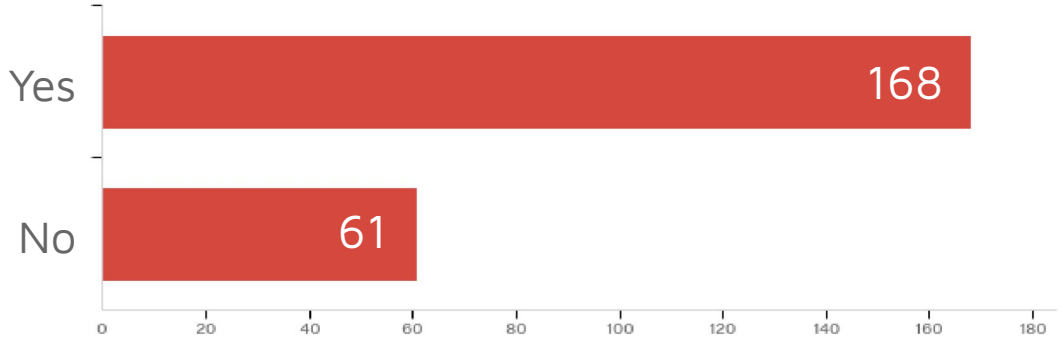
Confident you can analyze your data effectively?



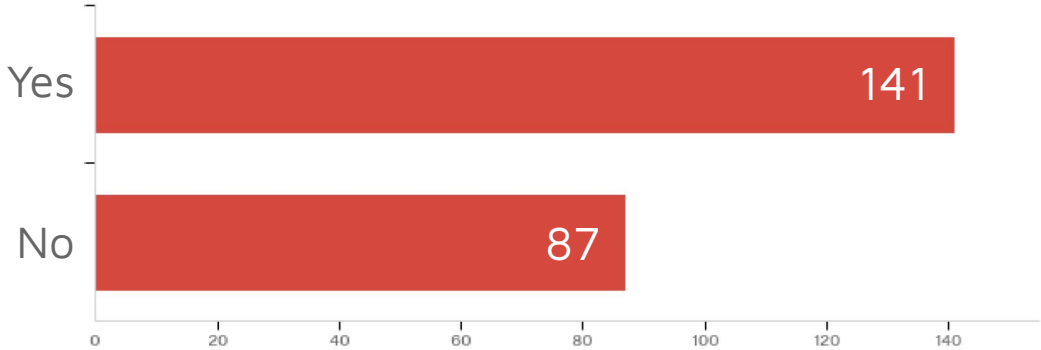
Want training on how to comply with grant regulations pertaining to data?



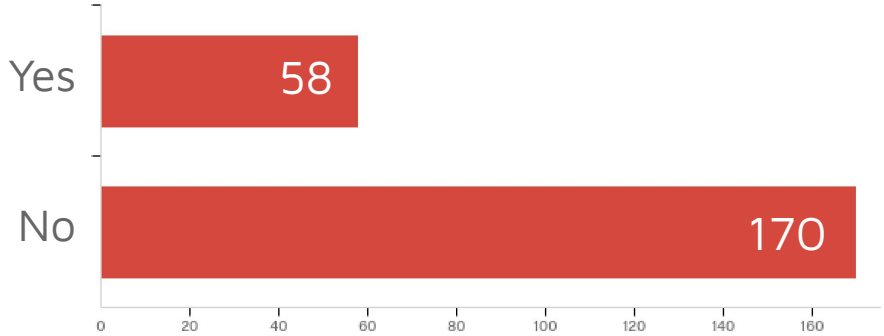
Aware of best journals to publish in?



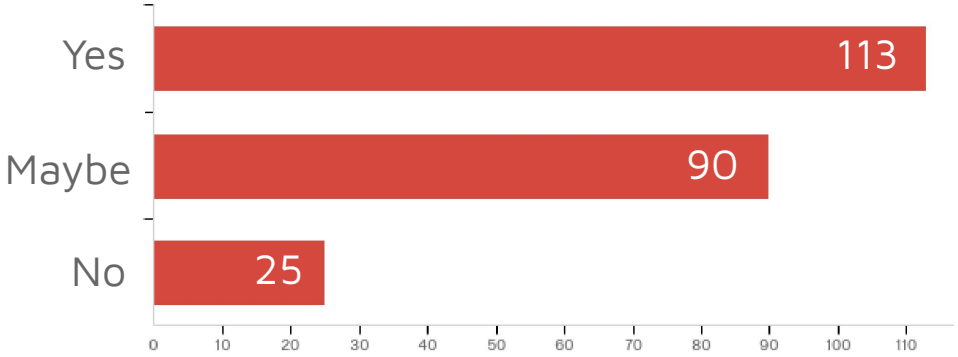
Want training in finding journals?



Aware you can negotiate copyright license when publishing?



Want training in negotiating copyright?



Describe research needs not being met

- Access to Articles — 3
- Finding Funding — 2
- Data Management — 3
- Return the Engineering Books to the Duderstadt Center — 5

Describe research needs not being met

- “Research in fields that I have little or no expertise: how to quickly find the background information I need.”
- “Effective way to store data in a single location.”
- “Finding OLD articles, ie pre-internet. Some journals I need are not online.”
- “Training on how to get out of the research game.”

Describe research needs not being met

Find a complete list of write-in responses here:

goo.gl/gjj8Ai

NEXT STEPS

- Two focus groups with CoE graduate students
- Share our survey and focus group results with the College of Engineering (CoE) Associate Dean for Graduate Education
- Plan a series of workshops to address student needs
- Present survey and focus group results at 2018 ASEE Annual Conference

Questions?

You have 3 minutes.