AST Individual Investigator Programs

STATISTICS FOR AAAC MEETING, JANUARY 28-29, 2015

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AAG Proposal Pressure

- **EXC**
- **GAL**
- **SAA**
- **PLA**
AAG % Future Success Rates in the Absence of Facility Divestment

Assumes 2% rise in total AAG dollar demand per year and J. Ulvestad "AST Portfolio Scenarios" data for budget to FY19.
AAG Future Success Rates

AAG FY11

AAG FY14

AAG FY19
Key AAG Statistics
AAG Budget Distributions Remain Steady
Proposals from Different Institution Types – AAG
1. Can use document clustering algorithms to compare the similarity of the text of a given proposal with any proposal submitted in the prior year.

2. Uses morelikethis algorithm and Apache solr to generate vector map of common words in a proposal and compare them with database.

3. Result is that AAG PIs are recycling proposals more often as time goes on.
AAG Multiple Submission Statistics
Rising Number of Individuals Submitting Proposals as PI – AAG

FY08 | FY09 | FY10 | FY11 | FY12 | FY13 | FY14 | FY15
---|---|---|---|---|---|---|---
500 | 550 | 600 | 650 | 700 | 750 | 700 | 750
Number of Submissions per PI - AAG
<table>
<thead>
<tr>
<th>Year</th>
<th>FY08</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
</tr>
</thead>
<tbody>
<tr>
<td>75%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>80%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>85%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>90%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>95%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>100%</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>
AAG Salary Request Statistics
Months of Salary Requested Per Year – AAG

FY08
FY09
FY10
FY11
FY12
FY13
FY14

0≤req<1  1≤req<2  2≤req<3  3≤req<4  4≤req<5  5≤req<6  req≥6
Summary

(1) Distribution of funding requests among budget categories has remained flat over 10 yr.

(2) Fraction of AAG proposals from those > 25 yr post-PhD has increased from 25% to 29% from FY08 to FY15.

(3) Fraction of AAG proposals that are multiple proposals from same PI (N>1) has risen from 11% (FY08) to 16% (FY15).

(4) Fraction of AAG proposals that request less than 3 months of salary per year has remained approximately flat (80-85%) between FY08 and FY15.

(5) Funding rate for women remains approximately equal to submission rate.

(6) Funding rate for first-time proposers is slightly lower than their representation in the submission pool (unsurprisingly).

(7) Increase in proposal numbers from FY08 to FY15 is largely accounted for by submissions from more individual PIs in a given year, but the number of AAG PIs in a given year still is no more than ~15% of the number of full members of the AAS. (roughly 650 over 4500 at current epoch.)

(8) In the absence of facility divestment, and with continued increased demand, we project the AAG success rate to decrease from ~15% (FY15) to 9.85% (FY19). Full facility divestment holds the rate at ~15%.
AAG Proposal, Reviewer, Demographic Statistics
PI Gender Statistics - AAG

[Graph showing the percentage of female and male pleniums with awards and total pleniums from 2004 to 2013. The graph includes four lines, one for female award recipients, one for female total pleniums, one for male award recipients, and one for male total pleniums. The percentages are shown on the y-axis, ranging from 0% to 100%, and the years from 2004 to 2013 are shown on the x-axis.]
Success Rates as a Function of Gender and Post-PhD Years – AAG FY11-14

[Graph showing success rates for different post-PhD years for males and females, with markers indicating percentage points.]
AAG Proposal, Reviewer, and Award Geographical Statistics