



SOUTH DAKOTA MINES
An engineering, science and technology university

University Cabinet

May 20, 2024





**SOUTH
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MINES**

Ivanhoe International Center

Strategic Plan

Academic & Co-Curricular Excellence

- Education Abroad
 - Goal is 10% of our graduates will have an education abroad experience
 - FY23 was 8.5% of graduates; will update FY 24 numbers when May grad list is available

Research & Innovation

- Number of new international PHD students were up in FY24, which should help with research

Outreach & Engagement

- Recruiting activities – working on new initiatives, including with the US Commercial Service

Campus Culture

- Welcoming atmosphere for international students through community and campus collaboration

New students for fall (so far)

75-80 have been issued I-20 forms; at this time in 2023, it was about half of that
~20 BS, 35-40 MS, ~20 PHD

Recruiting international students

- Research report from US Commercial Service will help with targeted marketing
- Planning trip to South Korea, Vietnam, and Malaysia (Sept-Oct)
- Agents – several new in the last year
- Increased competition, but some advantages over other countries

Majority of our procedures for international students (new and continuing) and ed abroad are online

- Use D2L as platform; students must pass quizzes to proceed to next steps
- Multiple videos walk students through procedures

Feeling of community and belonging

- Students, campus, and ISI
- Friendly community
- Availability and access for students at all levels of university

Student interns: 5 in FY22, 9 in FY23, 4 in FY24

Scholars: currently have 11 on campus

Ivanhoe International Center – Education Abroad

- Increase in students in coming year, interest finally rebounding after a few tough years
- 100,000 Strong in the Americas Grant for ADP with Peru
- Brass LIFE Award – developing promotional video with prior recipients
- Streamlining process for academic credit through TES
- Working with provider on pre-approved courses in specific disciplines and landing page on their website



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Humanities, Arts, & Social Sciences

Strategic Plan

Academic & Co-Curricular Excellence

- Curriculum updates (STS 201, ENGL 289, PSYC 351, ART 492); Insights from STEM Comm Series
- Music Center (collaboration with MET, SD Bandmasters Conference, Salzburg Choral Festival in Summer 2025)

Research & Innovation

- HASS faculty presented their work at 15 regional/national/international conferences in AY23/24
- Continue to support faculty productivity in scholarship/creative activity and professional development

Outreach & Engagement

- STS Trivia Night, Dr. Christy Tidwell's STEAM Café in Spring 2024
- STS Speaker Series, Dr. Alenda Chang (UCSB) in Fall 2023; planning STS summer camp for 2025

Campus Culture

- Dunn Student Lounge revamp (Raising for Rockers 2024); Media Lab growth
- Visiting Artists, Micah Daw and Anja Arko in Spring 2024 (Apex Gallery and Music Center)

Department/Center/Program Highlights

- New Department Name: HASS
- Enrollment: 16 STS majors; Music participation exceeded 300 students in Fall 2023
- New Faculty: Dr. Mary Witlacil, Asst. Prof. of Political Science (started Fall 2023); Ms. Carlie Herrick, Instructor of English (to start Fall 2024)
- Curriculum: Exploring ideas for two new minors (Creativity and Collaboration in STEM, Community Engagement and Ethics in STEM)
- Student Success/Course Enrollment: Expanded summer classes offered (7 in 2022, 9 in 2023, 13 in 2024)
- Faculty Recognition: Armstrong (Bernard A. Ennenga Award), Pritchard (promoted to Professor; MSS Committee Chair)
- Student Awards: Maggie O'Connor (Outstanding STS Student Award), Vanessa Leary (Leslie E. Boyd STEM Comm Award), Hannah Lias (Surbeck-McLearie STEM Comm Award)
- Music Scholarships: 47 scholarships totaling \$65,100 for AY24-25, double what it was in 2016
- Fundraising: Raising for Rockers (\$835 in 2023, \$2,450 in 2024)
- Recruitment: Advertising, High school visits/counselor letters, new promotional materials, department newsletter
- Co-Curricular Activities: Student art show (SP24), screen printing activity for M-Week, STEAM Club and Art, Halloween costume contest, STS Trivia Night, Blacksmithing Club et al. and Music, STEM Comm and CAMP, exploring interest in Ethics Bowl



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Monthly Reports

Enrollment Management

- Course registrations for new freshman continue to be submitted by new students.
- The Go to Mines held on Saturday, April 20 was very successful. Nearly 70 prospective students and their families attended.
- Over 450 FAFSA awards went out in mid-April.
- College fairs and coffee shop visits with prospective students continue in SD, MN, CO, and IL with send-off events being planned in many of these locations.

Academics

- The HLC visit has concluded and initial feedback from the team was positive. A formal report will be received by late May. Thank you to all who participated in the visit and who helped with the Assurance Argument!
- Numerous faculty searches are underway with offers beginning to go out for faculty planning to start in fall 2024.

Student Success

- A new Testing Center Coordinator will begin in June.
-

Academic Affairs & Enrollment

Applications, acceptances, and registrations:

	Fall 2020	Fall 2021	Fall 2022	Fall 2023	Fall 2024
Applications	1,462	1,593	1,664	1,687	1,707
Acceptances	1,207	1,254	1,348	1,390	1,331
Registrations	392	440	488	461	418
Transfers (Spring)	-	-	-	-	-
Transfers (Fall)	33	43	40	48	31

Graduate Education

May 2024

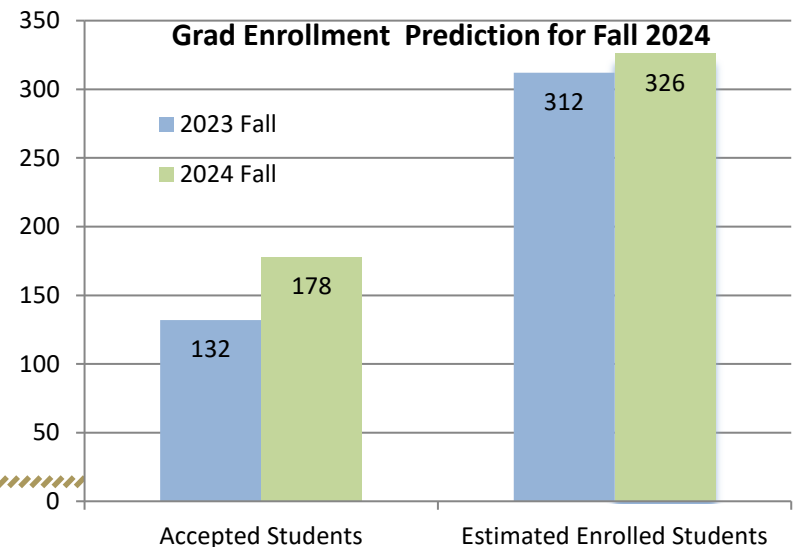
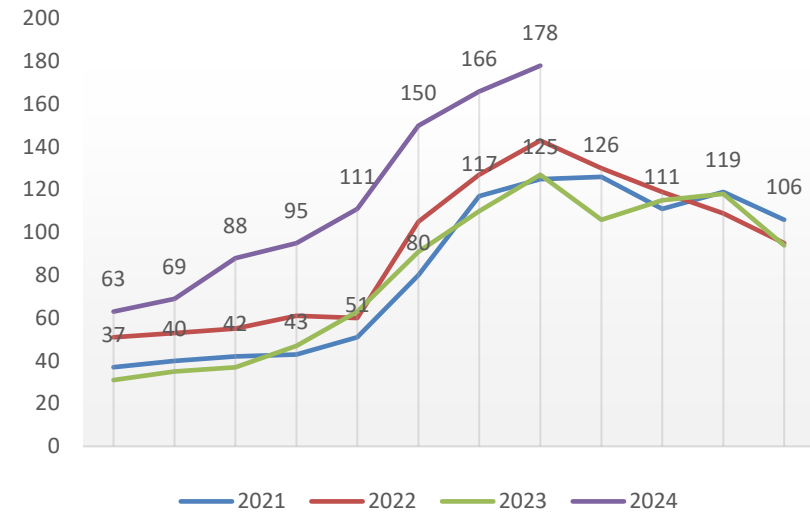
For Fall 2024

Current Accepted applications- potential enrolled	Fall 2024	3-yr avg	# change from 3-yr avg	% change from 3-yr avg
Current accepted applications	178	132	46	34.8%
Campus MS/cert	132	103	29	28.2%
Distance MS/cert	18	12	6	50.0%
PhD	28	17	11	64.7%
U.S. students	100	91	9	9.9%
International	78	41	37	90.2%
Thesis MS	25	51	(26)	-51.0%
Nonthesis MS	119	42	77	183.3%
Undecided MS*	0	20	(20)	-100.0%
Accelerated	62	45	17	37.8%

* Undecided is no longer an option on the application

- Fall enrollment estimate is uncertain due to changed nonthesis admissions procedures
- May need a couple years of data to adjust the model

Current accepted applications (potential enrolled)



Recent Awards & Recognition

- RMAC Golf Championships (Las Vegas, NV)
 - Annika Schooler - Low Round (1st Round, 69)
 - Rianna Garland - Low 54 Holes (228)
 - Braydon Jones – 2x Summit Award Winner (highest GPA among ALL RMAC participants)
- RMAC Track Championships (Grand Junction, CO)
 - Men's Team finished 6th place overall – school record
 - Jaycie Stubbs
 - 4x Javelin Champion
 - Javelin school (42.47m) – school record
 - Shot Put (14.15m) – school record
 - Aidan Thompson - Decathlon (6,445 Points) – school record
 - Allyson Heiden - 10K (38:34.55) – school record
 - Men's 4x400 Relay (3:15:99) – school record
(Lane Thomas, Eddie Johnson, Ethan Pitlick, Thomas Greisen)

Wellness & Intramurals

(March 12- May 4)

- Fitness Center
 - 5746 Students
 - 494 Staff
 - 60 Faculty
 - 20 Volunteer

- Climbing Wall - 87

- Group Fitness – 433

- Intramurals (# of participants)
 - Dodgeball (35)
 - Bubble Soccer (66)
 - Kickball (64)
 - Pickleball (36)

Upcoming Alumni Events

May

- Thursday, May 23 @ 4:00 PM – Moon Rockers Mixer @ Titusville, FL
- Thursday, May 30 @ 6:00 PM – Brandin' Iron Alumni Dinner Nemo, SD

June

- Tuesday, June 4 @ 6:00 PM – Sioux Falls High School to Hardrocker Omnitech
- Wednesday, June 5 @ 5:00 PM – Omaha Storm Chasers Game & Tailgate
- Thursday, June 6 @ 6:00 PM – Omaha High School to Hardrocker HDR
- Saturday, June 8 @ Noon – Black Hills Pub Crawl
- Thursday, June 13 @ 11:30 AM – Thursday's @ Thirsty's
- Thursday, June 20 @ 6:00 PM – Twin Cities High School to Hardrocker HDR
- Friday, June 21 @ 5:30 PM – Saint Paul Saints Game
- Thursday, June 27 @ 6:00 PM – Denver High School to Hardrocker Burns & McDonell
- Thursday, June 27 @ 6:00 PM – Brandin' Iron Alumni Dinner Nemo, SD

Student Events

May

- Thursday, May 16 @ 6:00 PM – Titusville Florida Alumni Moonrockers Social

June

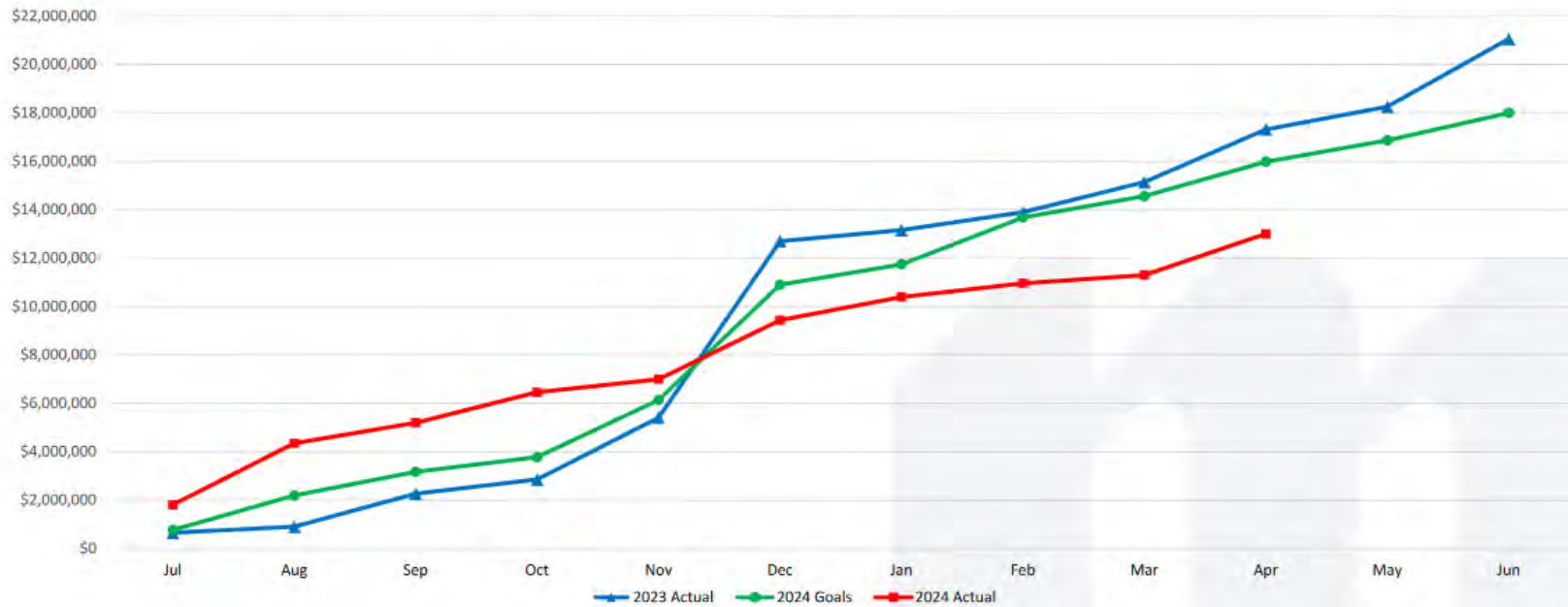
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- Thursday, June 20 @ 6:00 PM – Twin Cities High School to Hardrocker HDR
- Thursday, June 27 @ 6:00 PM – Denver High School to Hardrocker Burns & McDonnell

FY24 Annual Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actuals thru 3/31/23	FY 24 Actuals thru 3/31/24
New Gifts and Pledges:				
• Cash	\$ 9.43 M		\$ 8.83 M	\$ 5.91 M
• Stock	\$ 1.26 M		\$ 1.16 M	\$ 0.31 M
• Pledges	<u>\$ 10.36 M</u>		<u>\$ 7.33 M</u>	<u>\$ 6.78 M</u>
Total New Money	<u>\$ 21.05 M</u>	<u>\$18.00M</u>	<u>\$ 17.32 M</u>	<u>\$ 13.00 M</u>
• Gifts In Kind	\$ 43 K		\$ 39 K	\$ 103 K
• Estimated Heritage Society Gifts	\$ 2.89 M		\$ 2.36 M	\$ 2.68 M
• Pledge Payments	\$4.94 M		\$ 4.56 M	\$ 6.94 M

Contributions

As of 4/30/24 \$12,999,232 in contributions



FY24 Annual Financial Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actuals thru 3/31/23	FY 24 Actuals thru 3/31/24
Mines Advancement Fund	\$844 K	\$650 K	\$684 K	\$615 K
Corporate and Foundation Giving	\$1.02 M		\$728 K	\$4.35 M
Major Gifts	\$18.66 M		\$15.29 M	\$7.36 M

Breakdown of all gifts

Area	As of 4/30/24
Scholarships	\$5,282,539
Department Support	\$1,488,281
Athletics	\$283,238
Faculty Support	\$368,350
Facilities	\$4,702,158
Mines Advancement Fund	\$614,655
CARA Endowment & Unrestricted	\$260,010
Total	\$12,999,231

FY24 Donor Goals

Category	FY 23 Actuals	FY 24 Goals	FY 23 Actual thru 3/31/23	FY 24 Actual thru 3/31/24
New Heritage Society Members	23	20	19	10
Gifts over \$10,000 (Unique Donors)	173	180	130	157
Total Donors	2,180	2,250	1,794	2,561

Traditions of Excellence Awardees

- April – Jon Day

CSA Meetings

- August (day TBD)
- November (day TBD)

2024-2025 Council Members

Shelly Tupper, Chair

- *May 2025*

Amber Anderson, Vice Chair

- *May 2025*

Chris Pappas, Secretary

- *May 2026*

Elizabeth (Liz) Aga, council member

- *May 2026*

Rachel Howard, council member

- *May 2026*

Items discussed at May 8 Faculty Senate Meeting:

- Held All-Faculty meeting on April 25th:
 - Updates to senate bylaws approved
 - University budget discussion (thanks Dr. Spindle!)
- Senate approved suggested changes to 2024-25 P&T Dossier Guidelines
 - Letter of transmittal limited to 2 pages
 - Teaching, research and service narratives now 2-5 pages
- Dr. Scheepers to serve as faculty rep. on GAF Allocation Committee
- Dr. Nielsen provided an update on 2023-24 PRT activities, also provided background on an upcoming policy survey (Provost email on 5-10)
- Dr. Briggs discussed issues with syllabi that cropped up during HLC
- Dr. Robinson assumed Chair of Faculty Senate at the end of the May meeting
 - Unable to serve during the fall semester as he will begin serving as Interim Dept. Head for CEE in late June.
 - Per Senate bylaws, Chair can select a Chair pro tem from members of the senate (including those serving as “past Chair”)
 - Dr. Katzenstein will continue to serve as Chair until January

Facilities Update

State Project Update

- **Nucor Mineral Industries Building** – Substantial Completion – October 2024
- **ARPA Funded Stormwater & Utility Project** – Project start: March 2024
- **O’Harra Lower-Level Renovation** – Substantial Completion – March 2024
- **King Center HVAC/Utility** – Start Date – March 1st, 2024, Substantial Completion – August 2, 2024
- **CBEC Lecture Hall** – Substantial Completion – August 2, 2024 (summer project)
- **Surbeck Expansion** – CO-OP Architects have been selected.
- **Old Mineral Industries Asbestos Abatement** – Contract for Design

Finance and Administration Budget Cycle: May 2024

- Continue to monitor FY24 budget
- Continuing the FY25 departmental budget review process
 - Looking at revenue projections and comparing to expense projections
 - Fine tuning priority listing
- May BOR Retreat
 - Looking at future tuition and fee options
- Finalizing new Budget Department leadership

Contracts

- Contracts are being processed and we hope to have all of them out by May 21

Conflict of Interest

- The Board of Regents will use a new system for Conflict of Interest forms and reporting, which is currently still in production
- We will send annual Conflict of Interest forms out in August to faculty and staff

Software Development

- Cayuse data support
- New Website support
- Ellucian Experience Portal support
- End of term wrap-ups
- Summer maintenance on existing systems

Networking & Security

- Emergency firewall upgrade due to 0-day being exploited
- Purchasing items for summer projects (Adding WPA3 to wireless)
- Preparing for arrival of backup storage device.
- Restored network at stadium after stadium fiber was damaged and replaced for drainage project.

Helpdesk/Classroom Support

- Final interviews for Helpdesk Manager position
 - SSD Upgrades in some classroom desktops
 - O’Harra conference room upgrade in progress
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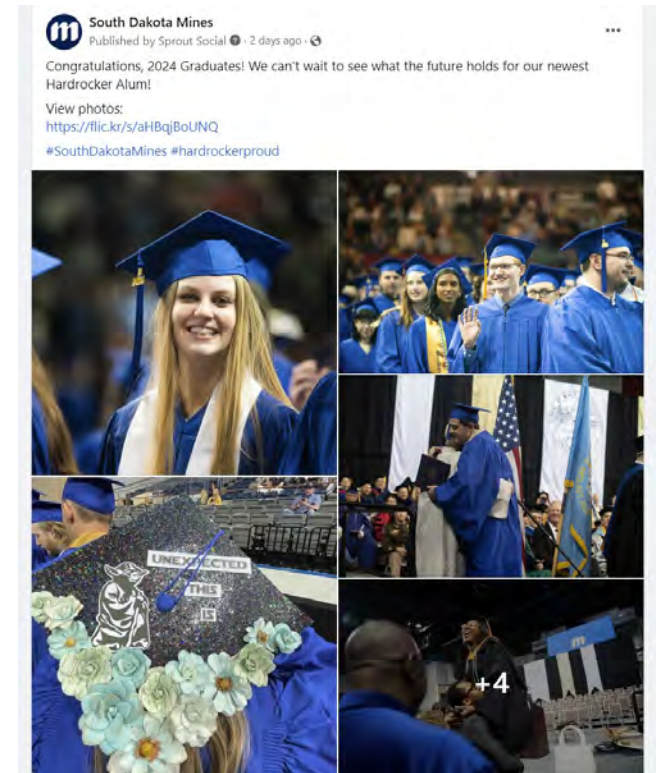
Office Update:

- New communications manager, Michelle Pawelski, started full-time on May 6.
- New web designer, Asiie Abdullaieva, also started full-time on May 6.
- Julia Easton, who is currently working very part-time on web redesign while in med school, will be back on campus after Memorial Day through her last official day on June 21.
- Currently interviewing candidates for PR specialist position. Hope to have someone on board by June 22.
- Still planning to launch redesigned website by the end of June.

April Social Media Metrics:

- Total Impressions: 350,316
- Total Engagements: 24,363
- Total Post Link Clicks: 8,648
- Monthly Engagement Rate: 7%
- Total Audiences: 38,157

Top Post:



Impressions = 7,099
Reach = 7,099
Engagement = 1,729

NFE Council

Office Updates:

- Dr. Rankin announced his retirement effective June 21. Dr. Roberts will serve as interim president while Dr. Stone serves as interim provost and Dr. Robinson serves as interim CEE department head.
- We hosted American Exploration & Mining Association (AEMA) Executive Director Mark Compton on campus on May 10.
- We will also be hosting the Arkansas State vice provost for research and other executive leadership members on Friday, May 24.

President's Recent/Upcoming Travel:

- May 13-15 BOR Retreat at the State Game Lodge in Custer
- June 11 COPS Meeting in Pierre

SAVE THE DATE: Dr. Rankin's farewell party will be 3-5 pm on Friday, June 14 in the Pearson Alumni Center Ballroom.

• Welcome: Beth Lambeth

Updates

- **New Funding (Feb-Mar)**
 - **Waldien (GGE): Keck Fdn: Tectonics Neoproterozoic Black Hills**
 - **Sieverding (CEE): Houdek: Model development**
 - **May (Math): NASA: Biomass mapping**
 - **Shearer (CEE): NASA: Additive Manufacturing for Lunar Application and Use in Tribal Housing**
 - **Donovan (MET): DoD: Exploring Eng and Sci at Mines**
 - **Kavanaugh (Student Dev): SDSS: Opioid Prevention**
 - **Geza (CEE): USGS: water resources allocation and management under climate change**
- **Events**
 - **Research Affairs Regional Convening Meeting (June 6-7; Rapid City)**
 - **IEEE-USA Innovation, Workforce, and Research Conference (June 10-11; Sioux Falls)**
 - **National Innovation Network (June 9-11, Washington DC)**
 - **AFRL-Midwest (Campus Visit, June 13)**
 - **SURF-GPN-Mines workshop (SURF, July 16)**
 - **SD EPSCoR Student Symposium (Sioux Falls, July 31-Aug 1)**

Formalized Industry Partnerships

Shepherd LLC: virtual reality training

- The company creates immersive VR safety training modules that have proven to increase retention rates and reduce accidents in the mining industry. No longer pre-revenue and has a growing customer base.

CellField Technologies LLC: in vitro solution for disease research

- The company creates a platform that emulates the cell environment present in patients with osteoarthritis. This osteoarthritis modelling is a human emulation system that provides a tissue-relevant environment that provides a suitable screening platform for drug discovery.

Innovation Cycle Accomplishment

Case Study: John Barbour

- Awarded first place in Giant Vision in 2023
- Software Proof of Concept created
- Pitched to the base on April 29th and received a green light to move forward with beta testing in the next four weeks
- Collaboration with a faculty member, Brian Butterfield

Case Study: Phil Liteke

- Graduated 2 years ago, now working on Boston Scientific med devices
- Name on 15 patents with Boston Scientific
- His fishing gear is being sold at Scheels

Call to Action

Please help us to spread the word about our grant program, funded by the NSF:

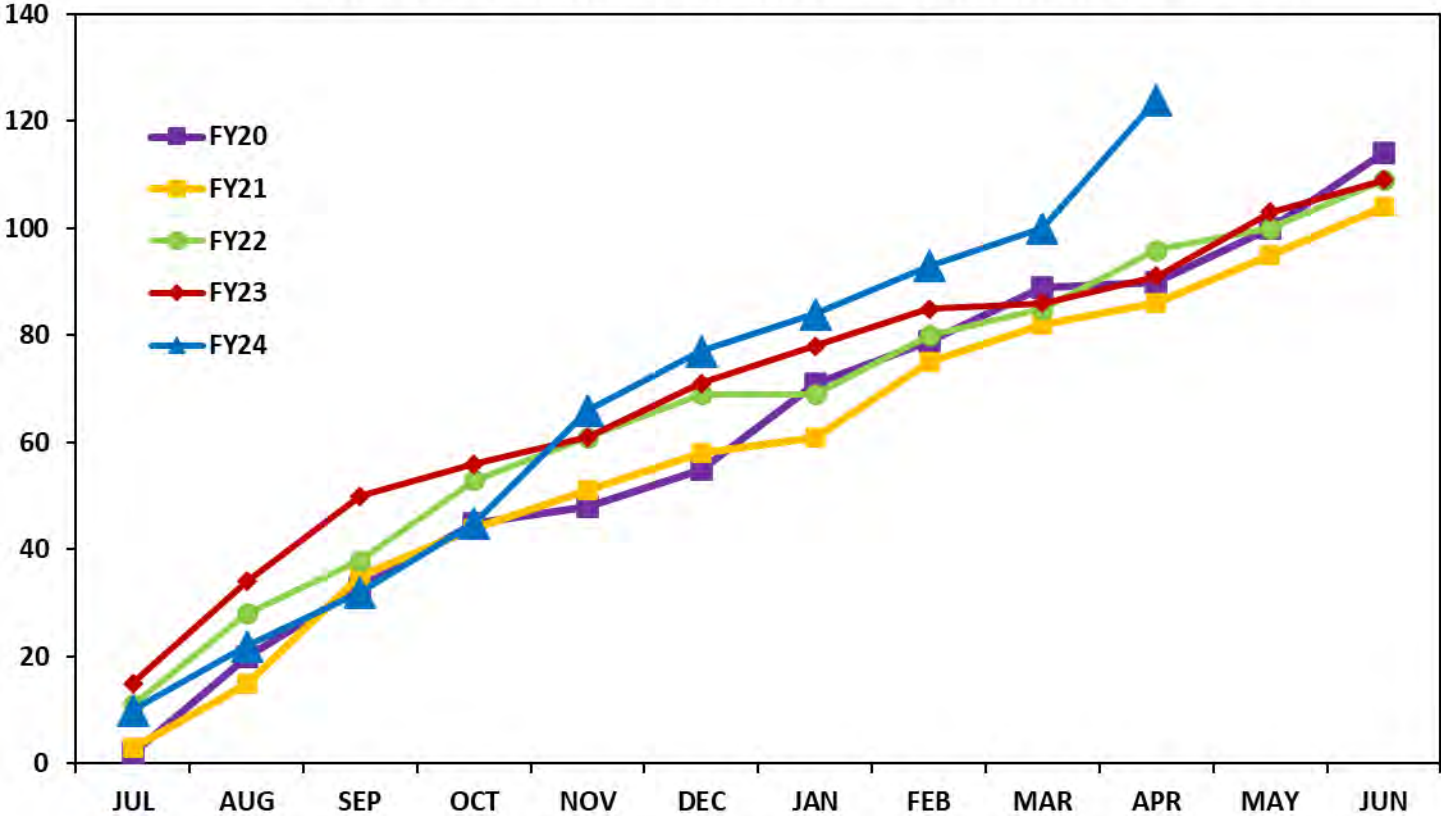
- Student stipend for participation
- Pays for student travel to conferences



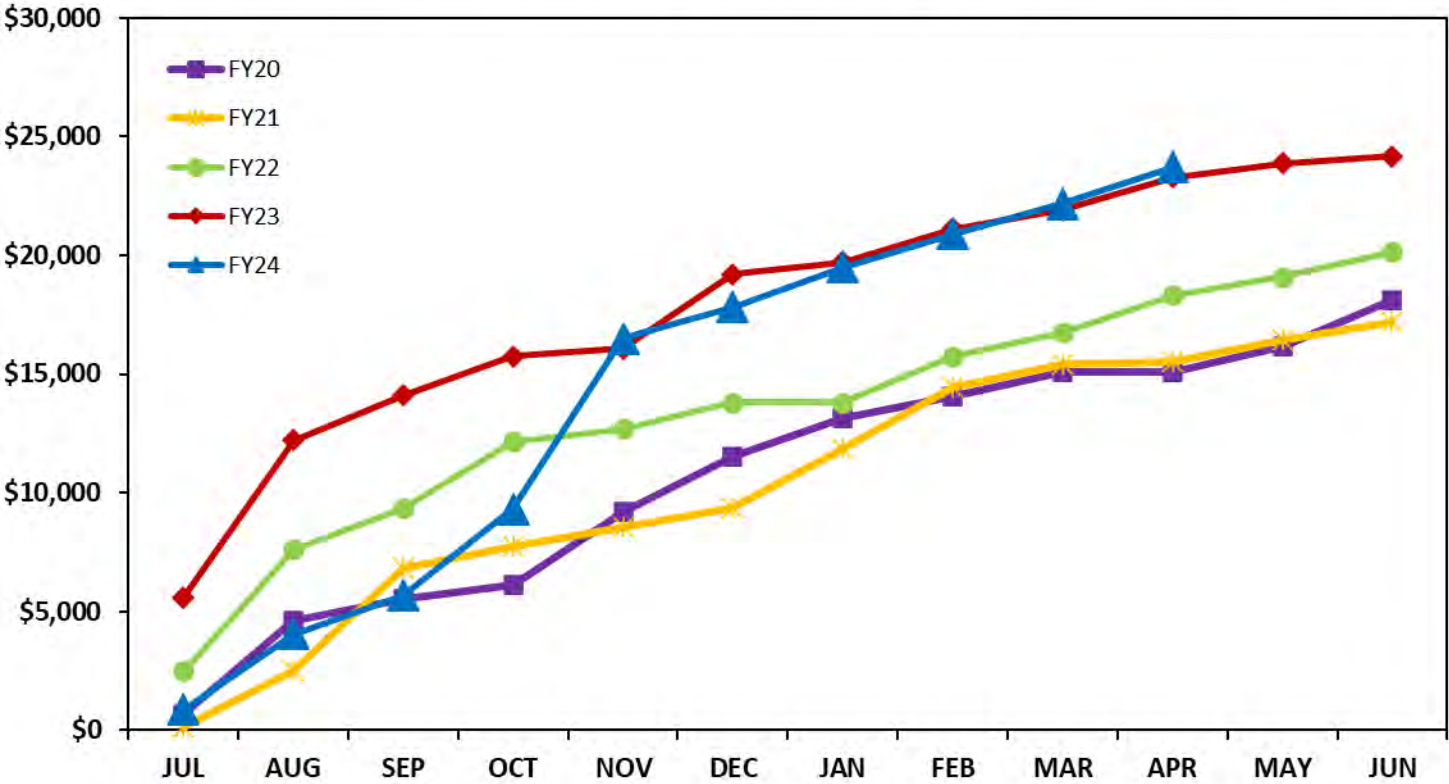
TRANSFORMING INVENTION TO IMPACT

As a National Science Foundation I-Corps Hub, the Great Plains Hub provides immersive, entrepreneurial training for scientists, researchers and engineers in the Great Plains states. We can help you propel your research ideas into the marketplace by empowering entrepreneurs, driving transformative change, and catalyzing the growth and success of startups in the region.

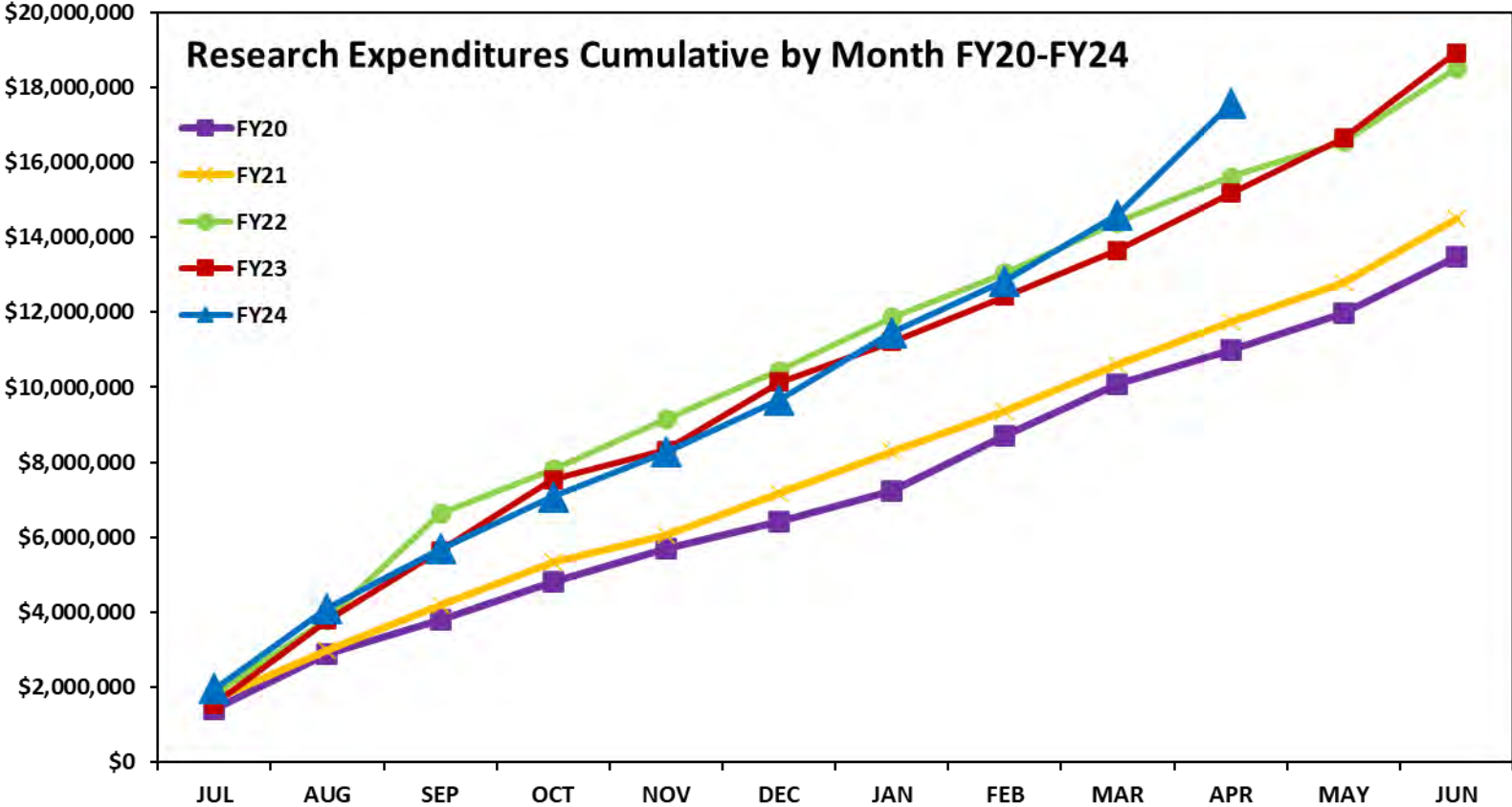
Cumulative Number of Awards by Month FY20-FY24



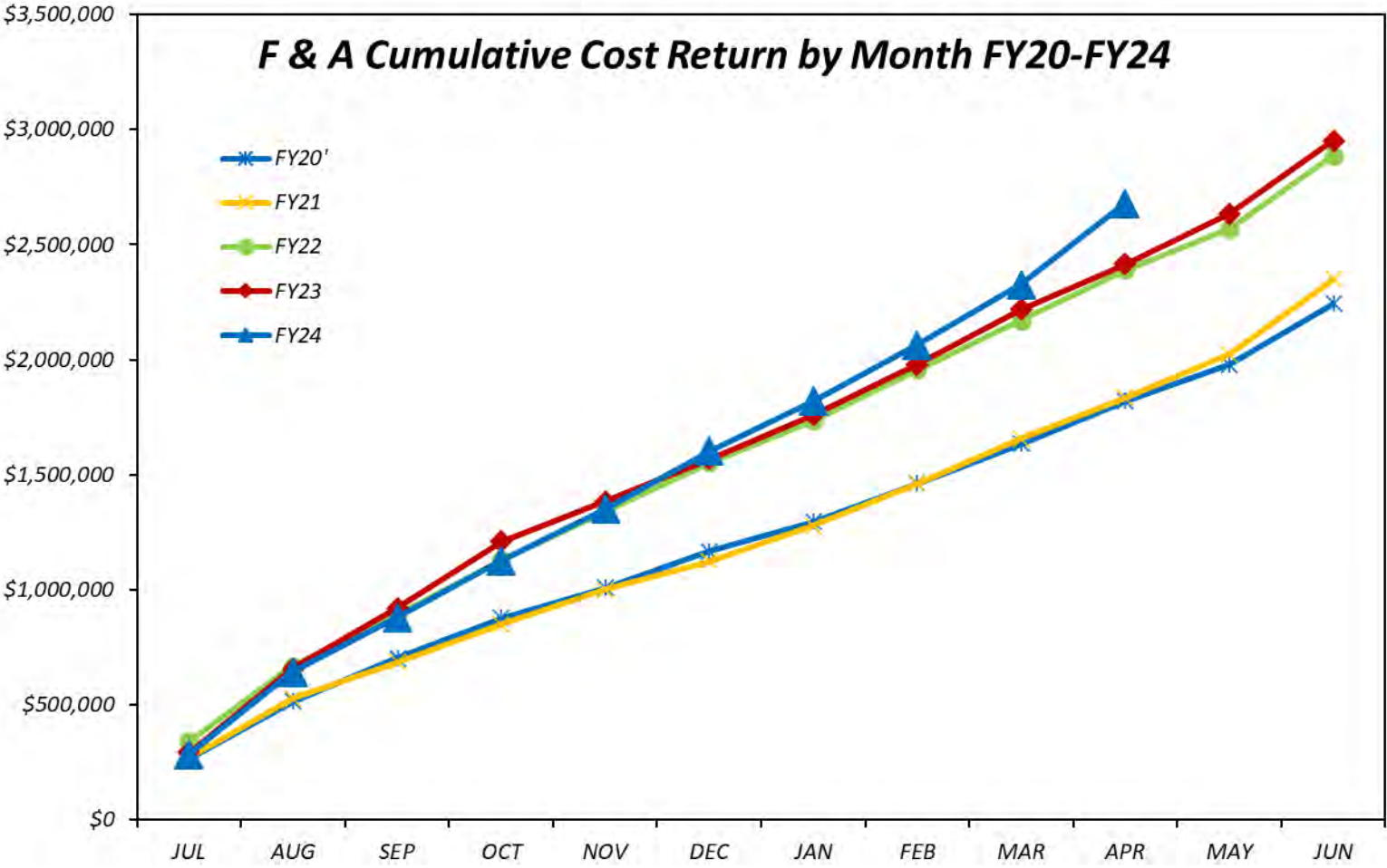
Cumulative Value of Awards (\$ K) by Month FY20-FY24



Research Affairs



Research Affairs



Innovation District Progress

- Stantec has been chosen as the consultant for strategy development
- Work will begin this month

Events

- Defense Symposium (April 10-11) - connections with defense contractors and federal delegation staffers
- Earth Day Expo (April 20) – lots of interest in Tanvi Govil's biodegradable plastic. Grad student Mageesha Sharma connected with various community groups to assist with community projects.
- IEEE-IWSC (June 10-11) Sioux Falls + visits with Aerostar and POET

Government

- Sen. Mike Walsh (Dist.35) campus visit (April 30)
- Sen. Jean Hunhoff (Senate Approps) meeting (June 3) + industry visits

Student Association

- Internal operations
 - Chair appointments and transition
 - Committee assignments
 - Freshmen election date (coincident with Rocker Royalty election)
- Fall 2024 strategic approach
 - Encourage more interaction between Senate and student body
 - Orientation and Rocker Days involvement
 - Social media presence
 - Moderated Discord channel
 - Student organization update presentations
 - Strengthen west-river and SD Mines representation on Student Federation
 - Maddelyn Siekmann (Public Relations Chair) elected to VP of Student Federation
 - December BOR meeting at Black Hills State University
 - Fundraise \$6,000 for SHED – concessions at the Monument, Pancheros nights, etc.

Updates

- Staffing
 - Internal Posting for Director of Ivanhoe International Center
 - Finalist Candidates Identified for Open Housing Positions
 - Joe Dlugos on Paternity Leave from Late July to Mid- October
- Rich and Trudy Wells Veterans Resource Center Renovation will be Complete in Late May
- 313 Total Students Attended PDP Sessions During 2023-2024
- Duane Kavanaugh, Megan Laskowski, and Chelsey Groseclose from Counseling became approved to offer EMDR (eye movement desensitization and reprocessing) therapy