

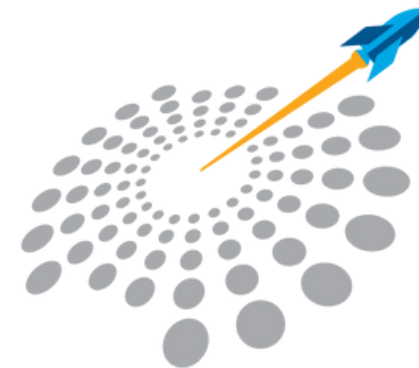
Welcome to:

NEBRASKA STEM: FOR ONE, FOR ALL



A national initiative

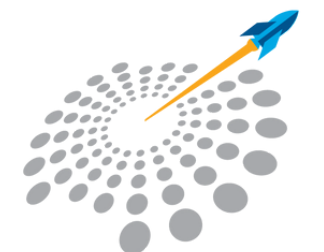
MILLION GIRLS MOONSHOT



MILLION GIRLS MOONSHOT
A STEM INITIATIVE FOR EVERYONE

THE MILLION GIRLS MOONSHOT MISSION:

The Million Girls Moonshot seeks to re-imagine who can engineer, who can build, who can make. It will inspire and prepare the next generation of innovators by engaging one million more girls in STEM learning opportunities through afterschool and summer programs by 2025.

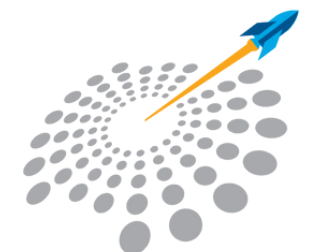


MILLION GIRLS MOONSHOT
A STEM INITIATIVE FOR EVERYONE

MGM'S FOUR TRANSFORMATIVE PRACTICES

- 1. Access to STEM Framework**
- 2. Engineering Mindset**
- 3. Role Models, Mentors, and Families**
- 4. STEM Transitions and Pathways**

Access the Toolkit at <https://stemnext.org/engineering-mindset-toolkit/>



MILLION GIRLS MOONSHOT
A STEM INITIATIVE FOR EVERYONE

A look at our state:

NEBRASKA WOMEN IN STEM

LISTEN THEN ACT

NEBRASKA 
WOMEN IN STEM

Strategy Example #1

OMAHA STEM ECOSYSTEM



OMAHA STEM ECOSYSTEM

Julie Sigmon - Director

Mission: The Omaha STEM Ecosystem is building a stronger STEM Community by connecting education and business development for tomorrow's workforce.



STEM Community Platform



01

Connects programs and resources to facilitate efficient and effective career pathways to close the talent gap.



02

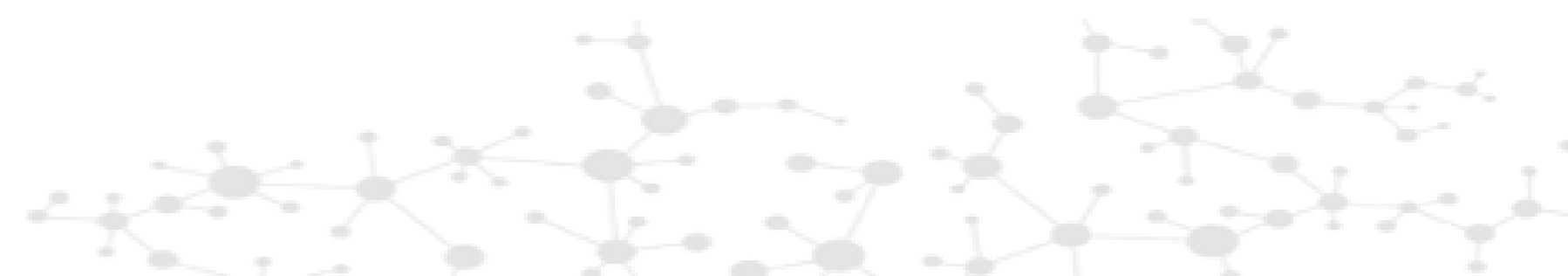
Create a community culture as THE primary resource for sharing and promoting STEM programs and resources.



03

Communication tool for parents, students, educators, business, non-profits, and industry partners.

Launched in April 2020, the STEM Community Platform is an online clearinghouse of information about program offerings, career information and resources. The platform was created in partnership with AIM Institute through a sponsorship with COX Business. This platform has allowed community partners to come together to ensure access and equity in education resources for all community members.



Strategy Example #2

LINCOLN STEM ECOSYSTEM

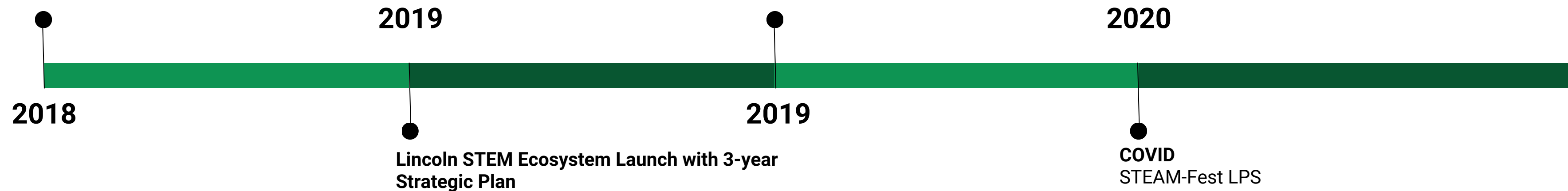




STEM “Coffee Chats”
 Government, UNL, Duncan Aviation, Lincoln Electric System, LPS



LNKSE “Reverse Pitch” Event
 STEM Nonprofits present to business





Program Highlights

Construct Your EcoSTEM

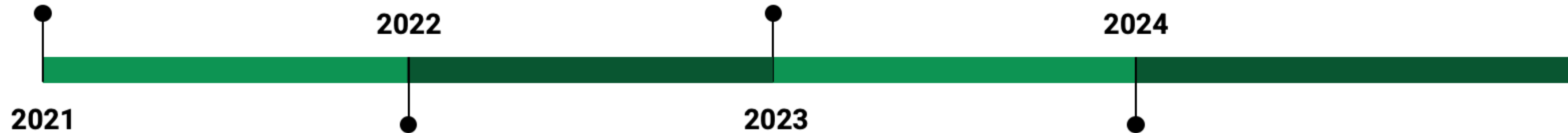
Neogen-SCC Biotech Teacher Institute



Transfer Ownership to Lincoln Partnership for Economic Development

Donna Gould, IT Director at Monolith Materials

Gabby Johnson, Science Department Co-Chair, and Biology Instructor at SCC



Program Highlights

Neogen-SCC Biotech Teacher Institute

STEM Summer Institute - Spreetail/Talent+

Completion of Phase I: 2019-2022 Strategic Plan



BIO-CARE Project

- 3 years
- Industry partnership with Neogen
- Authentic research experience



#2202070

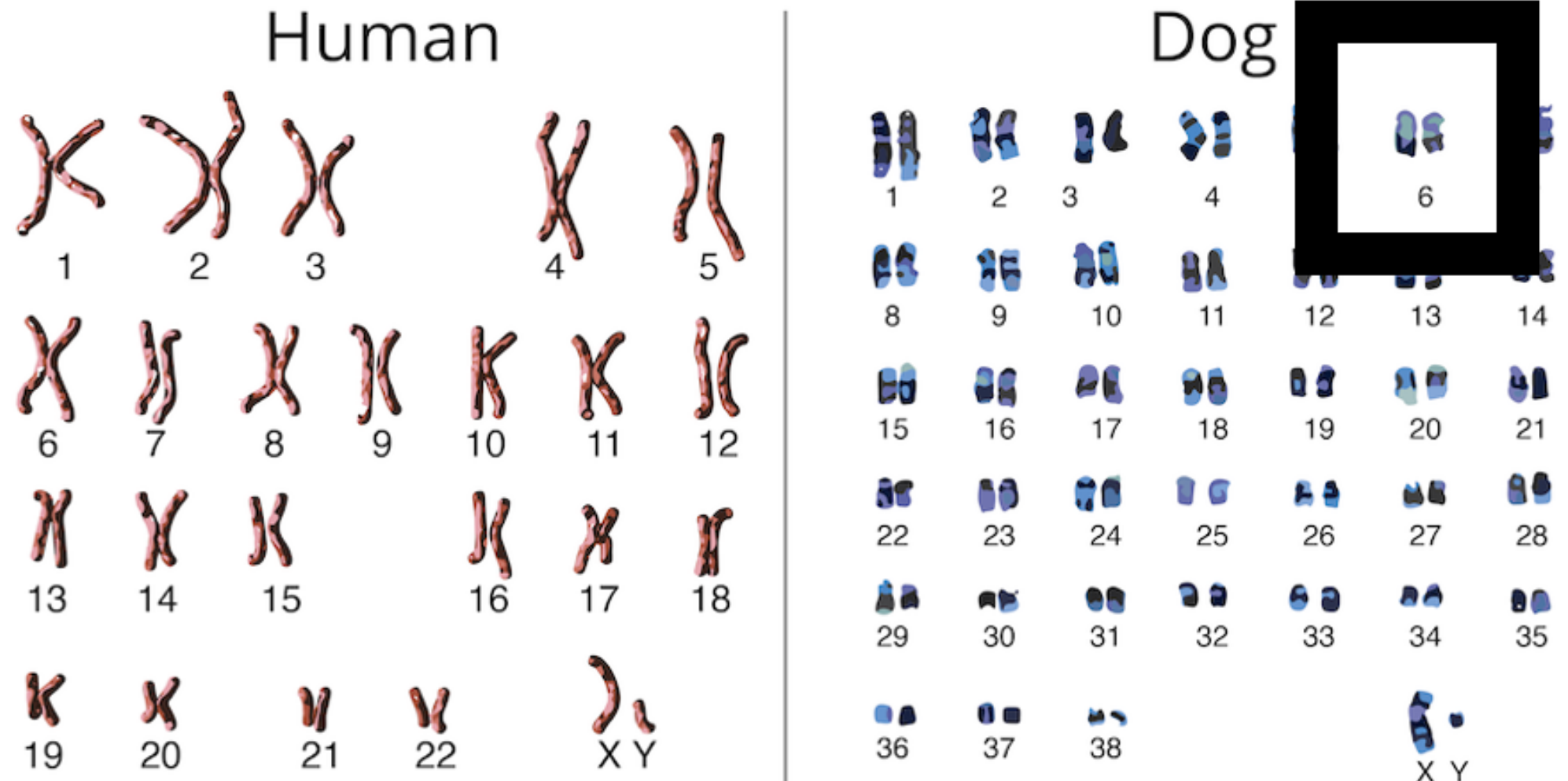


K9 Project Hypothesis

When comparing wolf and dog behavior, dogs display hypersocial behavior and wolves do not

Additional DNA was found in 2 locations on chromosome 6 of dogs that was not present in wolves.

Hypothesis: Extra inserted DNA in 2 gene locations on chromosome 6 is associated with increase in hypersocial behavior in dogs



Let's talk about it!

DISCUSSION QUESTIONS

- 1. What does STEM engagement look like in your community (for programs) or what do your STEM outreach efforts look like (for partners)?**
- 2. What has been your experience with partnerships between schools/afterschool programs and STEM businesses (successes and challenges)?**
- 3. What barriers may exist in your school/community for students interested in pursuing a STEM field?**
- 4. What do you wish you would have known about/had access to in grades K-12 related to STEM career field?**
- 5. What role should the school day play in STEM education? What role should afterschool/out-of-school time experiences play in STEM education?**

Get in touch!

PRESENTER CONTACTS



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