What is the purpose of NMPDS?
NMPDS addresses the statewide need to build required skills and knowledge teachers need in order to fully teach complex topics in number sense, algebra, geometry, and data analysis.

What does a typical session look like?
Classroom math teachers from across the state are equitably identified to attend trainings held during the school year and summer in multiple sites across the state in order to engage in professional development instructional strategies workshops. Using research-based materials, each series is instructed by highly qualified, seasoned Nebraska-based experts.

The series sessions are implemented through direct instruction, exploratory experiences and interaction between the participants.

How can I apply?
APPLY online at:
http://backyard.esu1.org/fmi/iwp/cgi?-db=SPERegs&-loadframes

Application Deadlines:
Elementary Math Academy – June 30, 2015
Middle/High School Institute – June 30, 2015

Space is limited so priority selection will be made if necessary. Notification of acceptance will be sent.

For more information contact:
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NMPDS Project Director
ESUCC
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Omaha, NE 68128
402-803-0592
hbanzhaf@esucc.org

Funded through the Mathematics Science Partnership Grants under the NCLB Act of 2001

Modeling
The Eight Mathematical Practices
Through Geometric/Statistical Analysis Thinking
This Professional Development series will:

- Demonstrate the integration of mathematics in STEM activities
- Provide activities mapped to Nebraska and Common Core Math standards
- Integrate geometry and statistical analysis into elementary mathematics instruction
- Use geometry and statistical analysis as a way to illustrate a wide variety of mathematical topics
- Provide differentiated activities and instruction for all grades 3-6
- Encourage student problem solving, representation, reasoning, communication and connections
- Provide lessons and activities integrating STEM technology to mathematics
- Provide effective classroom strategies blending mathematics and other STEM subject areas

Elementary Mathematics Academy Schedule
All Sessions meet from 8:30 am – 3:30 pm
Participants are expected to attend ALL sessions for their region.

<table>
<thead>
<tr>
<th>Date/ Site</th>
<th>Kearney</th>
<th>Norfolk</th>
<th>Omaha</th>
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<tbody>
<tr>
<td>Session 1</td>
<td>Oct. 19</td>
<td>Oct. 20</td>
<td>Oct. 9</td>
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<tr>
<td>Session 2</td>
<td>Nov. 10</td>
<td>Nov. 20</td>
<td>Nov. 9</td>
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<tr>
<td>Session 3</td>
<td>Jan. 22</td>
<td>Jan. 14</td>
<td>Jan. 15</td>
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<td>Session 4</td>
<td>Feb. 15</td>
<td>Feb. 16</td>
<td>Feb. 18</td>
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<td>Session 5</td>
<td>Mar. 4</td>
<td>Mar. 7</td>
<td>Mar. 8</td>
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<tr>
<td>Session 6</td>
<td>June 22-24, 2016 - STEM Training Kearney (location TBA)</td>
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<tr>
<td>Final</td>
<td>Fall 2016 NATM Conference, Location TBA</td>
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</tbody>
</table>

Trainers: Tami Worner and Johanna Barnes, WSC

Kearney: ESU 10, 76 Plaza Boulevard
Norfolk: Lifelong Learning Center, 801 E Benjamin Ave
Omaha: ESU 3, 6949 S. 110th Street

Middle/High School Institute Schedule
All Sessions meet from 8:30 am – 3:30 pm
Participants are expected to attend ALL sessions for their region.

| Session 1  | Oct. 12 | Oct. 13 | Oct. 9 |
| Session 2  | Nov. 16 | Nov. 20 | Nov. 9 |
| Session 3  | Jan. 22 | Jan. 14 | Jan. 15 |
| Session 4  | Feb. 15 | Feb. 16 | Feb. 18 |
| Session 5  | Mar. 14 | Mar. 15 | Mar. 18 |
| Session 6  | June 22-24, 2016 - STEM Training Kearney (location TBA) |
| Final      | Fall 2016 NATM Conference, Location TBA |

Trainers: Elliott Ostler, Neal Grandgenett, UNO

Kearney: ESU 10, 76 Plaza Boulevard
Norfolk: Lifelong Learning Center, 801 E Benjamin Ave
Omaha: ESU 3, 6949 S. 110th Street

2015-16 NMPDS Modeling
The Eight Mathematical Practices Through Geometric/Data Analysis Thinking

Benefits for Teachers:
- Learning Forward Standards for Professional Learning are met
- Mathematics teaching resources
- Networking with other professionals
- Daily participant stipend of $140 per day before payroll tax deduction (non-contract days only)
- Substitute reimbursement of $100 per day (public schools only), if requested by May 1, 2016
- Travel stipend of $50 for those located at least 75 miles from the training site
- NATM Fall 2016 Registration
- Possible credit available (3 graduate credit hours)

Who may apply?
- 3 – 12th Grade Teachers
  - Elementary (3 - 6)
  - Middle/High School (7 - 12 Math)
- Special Education/Title I Teachers
- Priority points on application will be given to those from high needs districts; those assigned to SPED and Title I; and those whose students are struggling with achievement on NeSA Mathematics
- Priority points on application given to first year NMPDS applicants

This Professional Development Series will:
- Provide activities, instructional strategies and resources for teachers to assist ALL students in:
  - Meeting the Nebraska State Mathematics Standards and improving performance on the NeSA-M assessment
  - Using technology to gain a deeper understanding of geometric concepts
  - Making connections between algebra, geometry, probability and statistical analysis
  - Building student ownership of learning through the utilization of technology such as spreadsheets, videos, and internet resources
  - Developing mathematical concepts within the context of problem solving, representation, reasoning, communication and connections
  - Provide effective strategies that integrate mathematics with STEM activities
  - Meeting the high expectations of Common Core Standards and Mathematical Practices

Elementary Math Academy (3-6)
Middle/High School Institute (7-12)