Helping Indiana Build a 21st Century High Technology Economy

David R. McKinnis, Director
Technical Assistance Program

Tap Mission

To strengthen the Indiana economy and improve the quality of life for all Indiana citizens.
Technical Assistance Program

- Established 1986
- Engages 200 faculty/staff/students with 400 companies per year
- Economic impact is significant
- Member of the Purdue Engagement Team
- Supports manufacturing, life science, and information technology sectors
Technical Assistance Program

TAP Funding Sources 2003-04

- Fees for Services: $362,293
- Other: $18,336
- State of Indiana: $1,100,715

Total: $1,481,344
TAP faculty, graduate students, and staff worked with 458 companies in 2003-04.
## TAP Activity in Elkhart County

<table>
<thead>
<tr>
<th>TAP Activities</th>
<th>Elkhart County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assistance Projects</td>
<td>260</td>
</tr>
<tr>
<td>Summer Interns Placed</td>
<td>65</td>
</tr>
<tr>
<td>High Tech Job Fair</td>
<td>8</td>
</tr>
<tr>
<td>(companies attending)</td>
<td></td>
</tr>
<tr>
<td><strong>TAP Economic Impact</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Impact</strong> (as reported by companies)</td>
<td></td>
</tr>
<tr>
<td>Capital Investments</td>
<td>$1,090,000</td>
</tr>
<tr>
<td>Cost Savings</td>
<td>$482,000</td>
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<tr>
<td>Increased Sales</td>
<td>$886,000</td>
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<tr>
<td>Jobs Added</td>
<td>18</td>
</tr>
<tr>
<td>Jobs Saved</td>
<td>38</td>
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</tbody>
</table>

*1986 through June 2004*
Technical Assistance Program

Program Services

- Assistance Projects – up to 5 days free
- Summer Interns
- High Tech Job Fair
- Technical Information Service (TIS)
Technical Assistance Program

2004 TAP Assistance Project

Naval Surface Warfare Center, Crane Division

Professor Dayananda, MET and Eric Scheid, NSWC
Technical Assistance Program

Naval Surface Warfare Center 2004 Project

Projects:
- Microstructure analyses of aluminum parts.

Purdue Participants:
- Mysore Dayananda, professor of materials engineering
- Zeynep Kasapoglu, graduate assistant

Results:
- $25,000 in production savings
Technical Assistance Program

2003 TAP Assistance Project

R & S Welding and Fabricating, Winamac

Prof. Mileta Tomovic (MET), Bob Rosenbaum (R&S)
Project:
- Welding fixture design

Purdue Participants:
- Mileta Tomovic, professor of Mechanical Engineering Technology

Results:
- Increase in sales of $150,000
Technical Assistance Program

2003 TAP Assistance Project

Suros Surgical Systems, Indianapolis

Dave McKinnis (TAP) and Rich Rella (Suros)
Projects:
- Develop flow processing

Purdue Participants:
- Jack Posey and Pornthep Anussornnitisarn of the TAP industrial engineering group

Results:
- Capacity doubled to 5,000 units per month
- Cost savings of $250,000 per year
Technical Assistance Program

2003 TAP Assistance Project

Griffin Analytical Technologies, West Lafayette

Dennis Barket (Griffin), Prof. Charlene Sullivan (MGMT) and Dylan Zhou (Graduate Assistant)
Griffin Analytical Project 2003

Develops Miniaturized Mass Spectrometers

Project:
- Determine the value of the company’s technology

Purdue Participants:
- Prof. Charlene Sullivan, management and Dylan Zhou, graduate assistant

Results:
- $2.2 million in new investments for the company
Technical Assistance Program

2004 TAP Assistance Project

Pratt Corporation, Indianapolis
Technical Assistance Program

Pratt Corporation Project 2004

Manufactures banner, pennants, flags, etc.

Project:
- Consolidation plans, layout development and production management

Purdue Participants:
- Prof. Mark Lawley, industrial engineering and Aman Sapra, graduate assistant

Results:
- $200,000 in cost savings for the company
Technical Assistance Program

2004 TAP Assistance Project

Indiana Fish and Wildlife, Avoca

Craig Johnson (STAT), Robert Ball (IF&W)
Indiana Fish and Wildlife Project 2004

Protection, Care & Management of Wild Animal Populations

Project:
- Analysis of survey data

Purdue Participants:
- Regina Becker, manager of Statistical Center, Kyle Harrison and Craig Johnson, graduate assistants

Results:
- Cost savings of $115,000
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TAP Technical Consulting

Costs:
- Up to five days free for qualified projects

Confidentiality:
- No information released without permission

Availability:
- Most projects begin within 2 weeks

Intellectual Property:
- TAP does not develop IP
- IP development & ownership is defined in research contracts with sponsors
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Connections with Purdue Students

- Summer Interns
- Co-op’s
- Class Projects
- High Tech Job Fair
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2004 Summer Interns

Hill’s Pet Nutrition, Richmond

Tiffany Spann (EET) and Zoe Bassey (ME)
Technical Assistance Program

2004 Summer Interns

Lawson-Fisher Associates P.C., South Bend

Kim Boner, (CE) and Scott Richmond (CE)
Technical Assistance Program

2004 Summer Intern

Aircom Manufacturing, Indianapolis

Prof. Ed Sullivan (left) and Daniel Parrott, CIT-IUPUI; Jon Hall, Aircom (right)
Technical Assistance Program

Co-op Program 2003

AE Staley – North, Lafayette

Mike Brunelle (ChmE)
Technical Assistance Program

Class Project
Technical Assistance Program

2003 High Tech Job Fair

Anthem Blue Cross Blue Shield, Indianapolis

for Indiana Companies
Technical Assistance Program

Job Fair Success Story

Best Access Systems, Indianapolis

Tyler Back (MET)
Technical Assistance Program

Information Competitiveness

- Technology Alerts
- Information Searching
- Document delivery via Web
Technical Assistance Program

The leading resource for technical information?

“…when the topic turns technical, the unquestioned leader is Purdue University’s Technical Information Service (TIS).”

Biz Voice Jan/Feb 2004
## Technical Assistance Program

### Participants in TAP & TIS – FY 04

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<tr>
<th></th>
<th>Engr</th>
<th>Mgmt</th>
<th>Sci</th>
<th>Tech</th>
<th>Ag</th>
<th>Other</th>
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<td>8</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>0</td>
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<td><strong>TIS</strong></td>
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<td></td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>88</td>
<td>16</td>
<td>18</td>
<td>48</td>
<td>3</td>
<td>33</td>
<td>9</td>
</tr>
</tbody>
</table>

**Grand Total = 215**

*Other Campuses*
Technical Assistance Program

Companies Served by TAP/TIS

- HTJF Attendees
- TIS IN Clients
- Intern Employers
- Projects

Fiscal Year

Companies
Technical Assistance Program

Assistance Projects by Region

May 1986 through June 2004

Total Projects: 5,759
## Savings and Investments *

- Capital Investments: $63 M
- Cost Savings: $29 M
- Increased Sales: $297 M

## Employment *

- Jobs Added: 1,556
- Jobs Saved: 2,560

1986 to June 2004

*Data based on client evaluations of TAP assistance*
Technical Assistance Program

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