

Technical Areas of Expertise

	Technical Areas of Expertise:
NAME	Please identify below all areas in which you consider your knowledge to be at an expert level.
TITLE	Pump Types:
COMPANY	 Air Operated Centrifugal Controlled Volume Metering
ADDRESS	 High speed Other Positive Displacement
ADDRESS	 Plunger Reciprocating and Power
CITY STATE/PROVINCE ZIP/POSTAL CODE COUNTRY	 Rotary Sealless (Mag-Drive & Canned Motor)
PHONE	 Self-priming Submersible
FAX	
E-MAIL	Other Equipment:
	Compressor Flectric Motor
WEB SITE	Electric Motor
Purpose: The Hydraulic Institute maintains a "Technical Areas of Expertise" profile on individuals who are candidates for the HI Canvass review process for HI Standards, Guidelines and other technical resources. As needs are identified by the Institute for technical subject matter assistance the data supplied with this form will assist HI Staff in matching needs	 Fans Fluid Drive Gas turbine Gear Instrumentation or Controls Steam turbine Variable Frequency Drive
with qualified individuals. This may include participation on balanced HI committees where user and engineering consultant expertise is needed. Completion of this form does not constitute an obligation to serve if requested by the Institute, nor does it obligate the Institute to limit its call for subject matter experts to individuals who have completed this form.	Application/Service: Agriculture and irrigation Boiler feed and other utility Building industry Chemical service Circulating Conveying
Interest Category:	Cryogenic applications
(Select one):	 Fire pumps and systems Food industry HVAC
	 Marine applications Mining



Technical Areas of Expertise

(Continued)

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Application/Service (continued):

- Mixing
- Nuclear applications
- Other Industrial or commercial
- Petroleum
- Pulp and Paper
- Pumped storage systems
- Recreation
- Slurry
- Transportation of Solids in Liquids
- Wastewater
- □ Water

Pumps and Pumping Systems:

- Allowable Operating Region for Centrifugal Pumps
- CFD Modeling
- Condition Monitoring For Centrifugal Pumps
- Corrosion and Erosion Analysis
- Coupling Analysis
- Economics of Pumping Systems/Life Cycle Cost Evaluaton
- Failure Analysis and Troubleshooting
- ☐ Fluid Dynamics
- Forensic Analysis
- Mechanical Analysis & Design
- (including rotor dynamics & torsional analysis)
- Mechanical Seals
- Metallurgy and Materials Selection
- Noise Analysis
- NPSH Margin for Centrifugal Pumps
- Performance Correction for Centrifugal Pumps Handling Viscous Liquids
- □ Piping Design (Hydraulic and Mechanical)
- Pump Intake Design
- Pump Systems Assessments; Optimization & Energy Savings
- Reliability Improvement/Maintenance cost reduction
- Root Cause Analysis
- Structural Analysis
- Systems Design and Upgrade
- □ Vibration Analysis and Balancing
- □ Wear Analysis
- □ Welding Engineering

Other:

- Expert Witness
- ☐ Field Testing
- □ Inspection Services
- □ Installation and Startup
- □ ISO-9001 documentation & development
- Organizational Analysis
- Patent research and prosecution support
- Project Management
- □ Teaching/Education*
- □ Turnkey Engineering
- Software: Design/Analysis/Selection

*Technical/Education:

Please describe the courses you are qualified to teach and/or the courses you have created.

Return to:

Hydraulic Institute, Inc. 6 Campus Drive, First Floor North Parsippany, NJ 07054

Return completed form to the Hydraulic Institute by FAX: (973) 267-9055 or by email: HITechincal@pumps.org