

# ProModel<sup>®</sup>

— a c a d e m i c

ProModel Corporation is a leading business process optimization and decision support company serving the pharmaceutical, healthcare and manufacturing industries. ProModel delivers professional services and innovative technology solutions that help companies maximize throughput, decrease cycle time, increase productivity, and manage costs. All of ProModel's specialized solutions are driven by its VAO Technology that enables clients to "Visualize, Analyze and Optimize" their business processes to best achieve performance objectives.



*"I really find ProModel valuable in the education field because the intuitive elements in ProModel are very similar to those used in manufacturing textbooks and students can easily make the connections. This helps them translate real world problems into a simulation environment quickly and intuitively. The quicker we can get students modeling, the quicker they can learn."*

Professor Thomas Brady  
Purdue University

Thousands of organizations worldwide use ProModel's VAO Technology. Pfizer, General Electric, Siemens, Daimler Chrysler, Mannesmann, Petrobras, Pilkington, Corus and DuPont have all improved their performance using ProModel software. Of course, we also work with many of the world's most progressive health care organizations, including Baylor, HCA and the Mayo Clinic among others.

*"ProModel is an excellent teaching tool. The students achieve a much higher level of understanding when they can put the theory into action. ProModel is easy and intuitive to use, yet it still has many advanced features that allow for building very detailed and complex models. The technical support staff is an invaluable asset."*

Michael Nowatkowski,  
Captain, Signal Corps, Instructor,  
United States Military Academy - West Point



Our Academic Team is committed to helping faculty members and students in their quest for improving organizational productivity using ProModel simulation software. Our software packages are powerful and affordable. We provide software to hundreds of universities and academic institutions in Europe, the Asia/Pacific region, Latin America and the Middle East.

# Materials Description

## **Solutions Café:**

Professors using the lab package receive access to our ProModel Solutions Café (Member Site) where you will find service packs and other downloads, technical support responses to hundreds of customer questions, additional resource material for model building, tips and techniques for using the software, training and teaching materials, and e-mail access to technical support.



## **ProModel:**

The leader in simulation of manufacturing systems, ProModel is an easy-to-use and flexible tool that has become the standard in engineering and production management programs. Models can be used to improve production output, identify bottlenecks, and evaluate solutions. Great for teaching and demonstrating key production concepts—JIT, Kanban, TQM, TOC, etc.



## **MedModel:**

A revolutionary healthcare simulation tool used by hospitals, clinics, and HMOs, MedModel is the most powerful simulation package available for modeling health care systems. Typical applications of MedModel include capacity planning, patient-focused care, staffing, and EMS planning. The software is designed for courses in health care administration at all levels and is also frequently used for large research projects.



## **ServiceModel:**

A simulation tool ideal for modeling banks, airports, restaurants, call centers and other service systems. ServiceModel is used to evaluate customer service, establish staffing levels, improve paper flow, and streamline distribution. This software is used in both undergraduate and graduate programs emphasizing service management.



## **Process Simulator (New):**

Now you can add simulation and statistical analysis capability to the power of process flowcharting with Microsoft Visio. You can quickly and easily simulate Microsoft Visio flowcharts, and Value Stream Maps. You've seen the usefulness of flowcharts for describing processes. Imagine adding simulation properties to your flowcharts to make them dynamic simulation models. Process Simulator also comes with ProModel's 3DR Output Viewer to analyze the statistical results of your simulations. Requires Microsoft Visio 2000 or higher.

(Visio 2003 is recommended for non-English operating systems.)



## **SimRunner:**

An optimization package with seamless integration into ProModel, MedModel or ServiceModel. SimRunner helps users find optimal configurations for complex models. Taking multiple input parameters with specific ranges, SimRunner will apply its evolutionary strategies and genetic algorithms to find an optimal solution for your specific objective function. The objective function may be any combination of output values, each with its own weighting scale.



**Stat.:Fit:**

This distribution-fitting software features descriptive statistics, parameter estimates, goodness-of-fit tests, and graphical analysis. Stat.:Fit includes 32 standard distributions most commonly used in simulation models. Stat.:Fit also provides DOE tools for analyzing the number of replications necessary for your simulation experiments.

**3DR:**

Using 3-dimensional ChartFX® graphs and charts, this 3-D Results viewer allows you to view statistical output for your models in many forms. The charts and graphs available are excellent for detailed analysis and for presentations.

**ProActiveX:**

Using the ActiveX capability available in ProModel, MedModel or ServiceModel - ProActiveX allows you to build or modify models using Microsoft Excel®. Models with massive amounts of input data can be built relatively quickly using normal spreadsheet data-handling tools.

## Ordering and Shipping



**ProModel ships with FedEx®**

Customers are encouraged to purchase educational licenses through their local distributor, who will also provide technical support and training.

ProModel charges US\$60.00 for shipment of lab packages to all destinations. Shipping for other orders is based on weight.

All purchases by customers outside of the U.S. must be pre-paid. Individuals purchasing student packages or other materials may pay by credit card. Lab packages may only be purchased by universities, with payment by certified check or wire transfer of funds to the following account:

PROMODEL CORPORATION  
ACCOUNT NUMBER 740 03 538 1  
KEY BANK OF UTAH  
556 EAST TECHNOLOGY AVENUE, OREM, UTAH 84097  
ABA# 124000737      Swift: KEYBUS33

A completed educational license agreement must accompany each lab package order. The agreement must be signed by a responsible official and have the stamp or seal of the university.

# Educational Packages

## Lab Package

- Available for ProModel, MedModel, and ServiceModel.
- Available for 20 or 50 simultaneous users. 50-user licenses require two weeks for delivery.
- Provides professional level capabilities of the software for specific number of concurrent users. The software may be installed on any number of computers, and the licenses float on the network.
- Available only for educational purposes (not to be used for commercial consulting).
- Includes CD with ProModel, MedModel or ServiceModel, SimRunner, Stat::Fit, ProActiveX, digital manuals for these products, and many other useful tools. The package also includes a printed ProModel/MedModel/ServiceModel User Guide and a Stat::Fit User Guide.
- Professors receive access to the Solutions Café (ProModel Member Site) for 1 year.
- Professors receive free phone and e-mail technical support for 1 year.
- Great for classes in simulation.



## Process Simulator Lab Kit

- Available only for educational purposes (not to be used for commercial consulting).
- Provides 15 professional level licenses of Process Simulator that can be installed on any 15 computers in a computer lab.
- Includes Process Simulator installation CD and one printed Process Simulator User Guide. Also includes online help system and tutorial.
- Professors may arrange for technical support through local distributors.
- Ideal for courses where simulation is only part of the course.

**Note:** Process Simulator is currently not designed to be used as a network version in the same way that ProModel is. These licenses are individual standalone licenses, and they reside only on the computers on which they are initially installed. They cannot be moved between computers

## 3D Animator Educator Package

- Available only for educational purposes (not to be used for commercial consulting).
- No lab package available. Each license is for a standalone copy of 3D Animator.
- Includes 3D Animator installation CD and a 3D Animator User Guide.
- Can be used in conjunction with a student version of ProModel, MedModel or ServiceModel, but the version number must be 6.2 or later.



### Student Packages:

#### CD Only

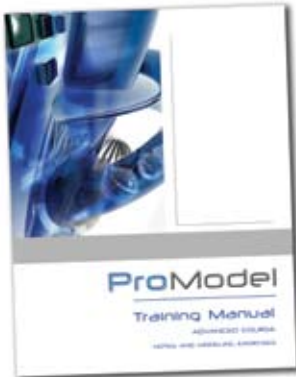
#### CD and printed User Guide

- Available for ProModel, MedModel, and ServiceModel
- Provides limited capabilities for student usage:
  - 20 locations
  - 8 entities
  - 8 resources
  - 5 attributes
  - 15 Run-Time Interface macros
- Includes CD with ProModel, MedModel or ServiceModel, SimRunner, Stat::Fit, ProActiveX, digital manuals for these products, and many other useful tools.
- Sufficient capability for learning the software and for small student projects.

We regret that we are unable to provide technical support to individual students.

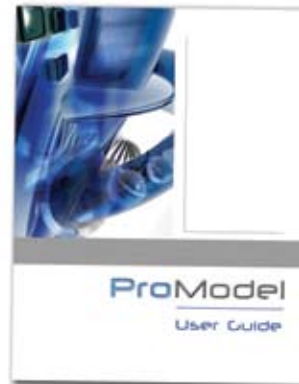


## TEXTBOOKS AND MANUALS



### Training Workbook

This manual is used in our commercial training courses. Available to students and faculty interested in a "hands-on" tool to facilitate quick learning of the software. Specify ProModel, MedModel or ServiceModel.



### User Manual

For those wanting hardcopy documentation of ProModel, ServiceModel or MedModel. This 700 page manual is a comprehensive guide to using ProModel and all of its statements and functions.



### Stat::Fit User's Guide

This manual is carefully organized to help you effectively fit analytical distributions to user data.

## Available on request:

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### Text: *Quantitative Analysis for Health Services Administration*

A number of quantitative techniques, including simulation, are covered in this text. Targeted specifically at health care administrators, it covers the application of quantitative analysis to management problems in health services organizations.

### Text: *Simulation Using ProModel*

Covers the art and science of simulation in general and the use of ProModel simulation software in particular. It is intended for use as a text in a graduate or undergraduate course in simulation in a Business, Engineering or Computer Science Program. Practitioners in business and industry will also find the book useful as a self-study guide to simulation.

