

## STEMS Development Cost Breakdown Sheet

### Develop Search, Chart, Graph and Analyse Component

Development Stage	Man-hour Estimate	Development Cost
Enhanced Keyword Search Engine	110	5,500
Enhanced Categorical Search Engine	75	3,750
Tabulation of Tasks by relationship	55	2,750
Tabulation of \$\$, Personnel, Sums, Avgs	90	4,500
Cross-correlation of multiple searches	92	4,600
Graphing and Charting Tool	131	6,550
Estimation and Prediction tool (task flagging)	180	9,000
	733	\$36,650

### Develop GIS Mapserver Component

Development Stage	Man-hour Estimate	Development Cost
Mapserver Website Integration	65	3,250
Basic GIS Layer Implementation	50	2,500
GIS Engine Development	140	7,000
Database Buildout	55	2,750
Website Buildout	100	5,000
Integrate Task Browsing w/ Visual Result	65	3,250
Integrate Task Searching w/ Visual Result	80	4,000
Data Colorization, presentation	90	4,500
Data Entry	140	1,400
	785	\$33,650

### Implement Search Parameter Saver

Development Stage	Man-hour Estimate	Development Cost
Database Modifications	12	600
Interface Modifications	20	1,000
Build	15	750
Testing and Deployment	16	800
	63	\$3,150

### Implement Dynamic User-privileges

Development Stage	Man-hour Estimate	Development Cost
Analyse Needed Privileges	12	600
Implement Privilege Flags	50	2,500
Process Flow Modifications	80	4,000
Implement Changes to Interface	18	900
	160	\$8,000

### Implement Undo Feature

Development Stage	Man-hour Estimate	Development Cost
Database Modifications	10	500
Interface Modifications	24	1,200
Process Flow Modification	36	1,800
	70	\$3,500

**Develop Integrated Help System\***

Development Stage	Man-hour Estimate	Development Cost
Database Modifications	25	1,250
Interface Design	15	750
Help Text Integration	24	1,200
Interface Implementation	16	800
	80	\$4,000

**Implement Publications Upload, Store and Search**

Development Stage	Man-hour Estimate	Development Cost
Database Modifications	10	500
Upload Interface Design	20	1,000
Search Engine Integration	26	1,300
Publications QA/QC Interface	30	1,500
	86	\$4,300

**Storing and Graphing Temporal Task Information**

Development Stage	Man-hour Estimate	Development Cost
Database Modifications	5	250
Interface Enhancements	20	1,000
Data Preservation Engine	20	1,000
Graphing Tools	25	1,250
	70	\$3,500

**Export Task Information to Text Documents in Word or PDF Format**

Development Stage	Man-hour Estimate	Development Cost
Interface Development	20	1,000
Document Creation Engine	20	1,000
	40	\$2,000

	Man Hours	Cost
<b>Grand Totals</b>	<b>1977</b>	<b>\$96,500</b>

\* See color key for task tree as example component





<b>Hourly Rate (Software)</b>	<b>\$50.00</b>
<b>Hourly Rate (Data Entry)</b>	<b>\$10.00</b>